

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

MAY 15, 1958



*Amelanchier LeRoyensis*

**SEEDS** TREE—SHRUB—PERENNIAL  
FLOWER—GRASS—VEGETABLE

**HERBST BROTHERS**

SEEDSMEN, INC.

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# THANKS TO YOU

Another satisfactory season is now about completed. Your patronage over the years has proved that our *superior quality and service* are important to our customers' success.

Favorable weather conditions permitted us to ship this past season's orders about on schedule. Reports from retail outlets indicate a profitable and busy selling season.

Prospects for our industry should continue favorable for this coming year and the demand for plant material of all kinds should be very good. As usual, some items of stock will again be in limited supply and few surpluses are indicated at the present time. Therefore, it will pay for you to make early reservation of your anticipated requirements for the 1958-1959 season. Our wholesale representatives will resume their work after June 15 and will be contacting you as early as possible.

*Superior Quality and Service for  
82 Years*



*One of America's Foremost Nurseries*

**Mount Arbor Nurseries**

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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Forms for the June 15 issue will close Friday, May 23.

Forms for the July 1 issue will close Friday, June 6.

Mail copy to arrive at Chicago by these dates—no later!

180 different varieties at last count

OR

## A ROSE HYBRIDIZER'S DREAM

One night our star hybridizer, Bob Lindquist, couldn't get to sleep. (Too much rose tea, somebody said.) So he started counting roses — all the big, bouncy blooming beauties we grow in this fertile Hemet Valley.

"88, 89, 90" . . . he counted. Big knock-your-eye-out roses like Aztec and Spectacular.

"101, 102, 103" . . . roses dreams are made of, like our own new exhibition rose Angel Wings — Love Song, Isobel Harkness.

"178, 179, 180" . . . hard-to-get roses like Pink Peace and the new All America Winners.

Goodness knows where all this might have led if the alarm hadn't gone off, causing our Robert to fall out of bed rudely on his root structure darn near snapping a stem.

Have you sent for your free copy of our new 1959 Price List?

Cold Storage Warehouses in 16 principal cities throughout the U.S. Like having our growing grounds in your backyard.  
WE PAY THE FREIGHT AND STORAGE  
for a reasonable length of time.

"Seasoned Rosebushes" for the wholesale trade exclusively.

**HOWARDS of HEMET**  
"Seasoned Rosebushes"  
HEMET • CALIFORNIA



# AMERICAN NURSERYMAN

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## Editorial

### GARDEN CLINICS

The stimulation of public interest in gardening produced by the spring flower and garden shows often leads nurserymen in smaller towns to wish they had the advantage of such events. Actually, they may benefit by something comparable in the form of a garden clinic or in one of the several forms which such a clinic has taken or may take.

Some of these garden clinics are spring events fostered by garden centers or retail nurserymen. Some of the earliest ones were in the forms of rose-pruning demonstrations, initiated in California. Other retail nursery firms, having the necessary facilities, have set up lecture and demonstration programs, for a couple of days or a week prior to or at the beginning of their selling season.

A large enterprise may result from the cooperation of a local association of landscape nurserymen with other interested groups, such as garden clubs, supply firms and the like. In such case the program may include not only demonstrations and lectures, but also educational exhibits staged by the individual retail nursery firms, by the various groups participating or by both.

The county agricultural agent may be found helpful in such a project. In some localities the county agent, on his own, programs lectures and demonstrations on phases of gardening with the help of talent from the state university. These agents sometimes are available for help in smaller towns or suburban districts, as well as in rural areas. Their organizing ability is valuable in coordinating the activities of various groups and in obtaining newspaper and other publicity which a commercial enterprise would find it difficult or impossible to secure.

Some of these spring garden clinics, both individual and cooperative,

have been described in the news columns of this magazine from season to season. Their success has been such as to stimulate still more of them.

### BILLBOARDS

President Eisenhower, in signing the bill by which Congress voted to inject an additional \$1,800,000,000 in federal and state funds into highway projects this year and in 1959 as an antirecession measure, criticized the methods by which Congress sought to have the states regulate billboard advertising along the highway routes. In its legislative report on the bill, the American Association of Nurserymen also said that the billboard control portion is not perfect and will not be an easy matter to administer.

Nevertheless, this provision in the bill recognizes for the first time by congressional action that it is in the public interest to encourage and assist the states to control the use of and improve the areas adjacent to the interstate highway system.

The bill specifies that outdoor advertising along the interstate system which is visible from the highway and within a distance of 660 feet from the right of way should be regulated consistent with standards prepared by the Secretary of Commerce. States which regulate advertising in accordance with those standards will be entitled to an extra one-half per cent above the 90 per cent federal share of the cost of the interstate highway for those sections so regulated.

While it is a step forward to have obtained congressional recognition of the need of regulating advertising along highways, the decision as to such regulation remains in the hands of the individual states. There is nothing compulsory about the federal measure. It merely offers a financial inducement to the states to regulate advertising signs on the interstate highway system.

Hence, those persons and organizations which took an active part in prodding Congress to this decision must continue their activity at the state level in order that the provision adopted by Congress will be recognized and acted upon in the individual states.

Just as the A. A. N. cooperated with garden clubs, conservation groups and civic organizations in obtaining the federal provision for the

regulation of billboard advertising, so must state and local groups of nurserymen contribute their efforts in states not now having advertising regulation. Billboard interests and some other business organizations will be active in opposing such regulation, and it is important that highway beautification by landscaping and planting maintenance be not frustrated by billboards set up alongside the right of way.

### CITIES STILL PLANT ELMS

In spite of the threat of the Dutch elm disease, half of the 17,000 trees which the city of Chicago is planting this spring in its small parks and on street parkways are elms. The elm is still the most popular tree, because it has a hardy constitution, lacks unwieldy boughs found on larger trees and does not damage sidewalks and water pipes. It blends with most neighborhoods and flourishes in spite of the city's smoke and automobile fumes.

The other half of the 17,000 trees planted by the city of Chicago are Norway maple, green ash, silver maple and honey locust.

The elm is not only favored by Chicago, but also by other cities. Walter Wright, superintendent of Chicago parks and recreation, says his department finds it difficult to order new saplings from wholesale nurseries and finds itself bidding against representatives from such cities as New York, Detroit and Boston. At present, he says, 12-foot elm saplings cost about \$6 each when purchased in wholesale lots.

Because of the scarcity of young trees and the city's large need for them, it recently established a 300-acre nursery near O'Hare airport, in addition to the 60-acre nursery near Riverside that is currently producing street trees.

The department is on the alert for the Dutch elm disease among the 600,000 trees already planted in the city's parkways and small parks. A laboratory is maintained to investigate the symptoms shown by any ailing trees. Not only are any suspected trees sprayed, but a solution of DDT is applied for 1,000 square feet around an affected tree in order to prevent the possibility of the disease's spreading. Additional sprayings are made, in addition to fertilization and pruning, and if a tree does not show improvement within three months, it is removed and burned.



# Revised Nomenclature Code Adopted

International Horticultural Congress Takes Action at Nice, France

By F. L. Steve O'Rourke

The 15th International Horticultural Congress held at Nice, France, April 10 to 18, probably will be remembered chiefly for the adoption of a revised code for nomenclature of horticultural plants and for the establishment of an international society for horticultural science. The congress brought together approximately 1,100 horticulturists representing more than 60 countries.

Seven symposia, each presenting five authorities in their field, were held to discuss horticultural problems on a world-wide basis. Several hundred research papers were presented by as many delegates. Field trips were taken to nearby stations to observe hydroponics and flower, fruit and vegetable culture.

The new code of nomenclature, which was adopted during the closing session of the congress, supersedes a previous code formulated at the 13th congress in 1952 and published in 1953. The present code is shorter and simpler than the 1953 code and is expected to be more acceptable to nurserymen and others dealing in plants commercially.

In the new code the word "cultivar" is preferred to "variety" as a term to denote a group of plants in cultivation. However, the use of the term "cultivar" is only a recommendation, and the plantsman may use "variety" if he wishes. The code is so written that the term "variety" appears in parentheses immediately after "cultivar" throughout the entire code.

## Cultivar Definition

Cultivar is defined in article 5 of the code as denoting "an assemblage of cultivated individuals which are distinguished by any character (morphological, physiological, cytological, chemical or other) significant for the purpose of agriculture, forestry or horticulture, and which, when reproduced (sexually or asexually), retain their distinguishing features."

Several different kinds of cultivars are defined in article 11. Of these, nurserymen will be interested chiefly in the following:

"A.—A clone (cl.) consisting of uniform material derived from a single individual and propagated entirely by vegetative means.

"B.—A line, consisting of a sexually reproduced population of uniform appearance, propagated by seeds or

spores, its stability maintained by selection to a standard."

Under the new code, names used for cultivars previous to January 1, 1959, will not be changed. After that date, however, all new cultivars must be named in accordance with the provisions of the code. The principal regulation deals with the type of name for the cultivar, which must be a fancy (common language) name and not a Latinized one. Such names as "Alba," "Spectabile," "Fastigiata" and "Prostrata" will not be allowed. The cultivar name should be directly attached to either the scientific (genus and species) or the common name and be distinguished by placing the abbreviation c.v. before it or by enclosing it in single quotation marks. A capital initial should be used for the first letter of the cultivar name. Thus a color selection of the shadbush would be written: *Amelanchier canadensis* c.v. *Pinkglow*, or *Amelanchier canadensis* 'Pinkglow' or Shadbush 'Pinkglow.'

In order to name new cultivars uniformly, the international commission for naming of cultivated plants will appoint as official plant registration groups qualified horticultural societies, groups, institutes or councils throughout the world. These registration authorities will review all applications for naming new cultivars and will prepare and publish lists of named cultivars from time to time. The new code, which includes agricultural and forestry plants, as well as horticultural ones, is seemingly acceptable to all plantsmen who desire uniformity in nomenclature. The objectionable features of the 1953 code were eliminated, and most of the features of the present code are recommended rather than mandatory. In all probability, if this code is widely accepted, as it appears it will be, many of the Latinized names now in use will be gradually changed to their English or other common-language equivalents.

## New International Society

The 15th International Horticultural Congress endorsed a resolution providing for the formation of an international society for the purpose of providing closer contact between horticulturists in all world areas, to establish commissions and committees to study horticultural problems and to prepare meetings and con-

gresses. The name of the new organization is the International Society for Horticultural Science (I. S. H. S.). A temporary secretariat will be established in the Netherlands to organize the society.

The society will probably consist of three types of members: Members of the council, to be designated by national governments or national horticultural organizations; affiliated horticultural organizations, i.e., societies, associations and institutions, and individual members.

The structure of the society is therefore broad and comprehensive enough to include all persons and interests in the field of horticulture. Groups interested in nomenclature, in breeding horticultural plants, and horticultural engineering have already declared their desire to affiliate as sections of the I. S. H. S. It is expected that several other interest groups in the many phases of horticulture will affiliate with the international society. Further information on membership and organization will be forthcoming from the secretariat in the near future.

## General American Report

In the absence of Dr. H. B. Tukey, of Michigan State University, East Lansing, who had been selected to present the general lecture for America, Dr. R. Seibert, director of Longwood Gardens, Kennett Square, Pa., gave a resume of the horticultural activities in the United States and the work and function of the American Horticultural Council. Dr. Seibert reported that even in the days of Benjamin Franklin there were plant societies in America, but only recently has interest in horticulture expanded to its present status.

He stated that since 1940 the sale of nursery products has increased four times. There are now more than 40,000 cultivars (varieties) of plants grown in America, of which 7,000 have been introduced in the past two decades. More than 2,000,000 dues-paying members are associated in about 13,500 garden clubs.

Dr. Seibert indicated that about one third of the population of the United States is engaged in home gardening. This tremendous horticultural interest is growing and is stimulating various economic phases in American business. He concluded

[Concluded on page 98]



A group visiting during an intermission in the program of the recent meeting of the Holly Society of America: Left to right, front row, Paul Bosley, Bosley Nursery, Mentor, O.; Daniel Fenton, New Jersey Silica Sand Co., Millville, N. J.; Amos Kirby, garden editor, radio station WCAU, Philadelphia, Pa., and Prof. Robert Clark, Rutgers University; back row, Prof. C. W. Dunham, University of Delaware, Newark; Col. Claude Dance, Shreveport, La. Jackson Batchelor, Gardens Beautiful, Willard, N. C.; Alfred Teufel, Portland, Ore., and Richard Wyman, Wyman's Garden Centers, Inc., Framingham, Mass.

## Holly Society Meets in Delaware

By C. W. Dunham

One hundred and fifty members of the American Holly Society gathered at the University of Delaware, Newark, for the society's 24th annual meeting April 10 and 11. Mr. and Mrs. Alfred Teufel, Portland, Ore., had the distinction of being the members who had traveled farthest to attend the meeting. The program opened Thursday afternoon, April 10, with a tour of the holly research project at the University of Delaware. After this, an informal coffee hour gave members a chance to compare notes about holly. The annual banquet in the evening was followed by a talk by Mrs. F. Leighton Meserve, Holly-by-Golly, St. James, N. Y. Mrs. Meserve showed some of her newest hybrid hollies and discussed holly hybridizing, emphasizing the importance of accurate records. She keeps detailed accounts of all of her work and distributed to the members a progress report, in which were recorded successful and unsuccessful experiments in controlled interspecific breeding of holly.

### Business Meeting

The annual business meeting opened the Friday morning session with reports of committees. The H. S. A. president, C. R. Wolf, New Jersey Silica Sand Co., Millville, N. J., presided. Dan Fenton reported that preparations are already under way for the fall meeting to be held at Richmond, Va. One of the committee reports of general interest was

that given by John Wister, chairman of the committee for holly variety registration. Mr. Wister stated that many new varieties are not being registered with the society, which is the international organization authorized to approve and register names for new holly varieties. A special application form is available from the society. Registration of variety names with the H. S. A. will prevent duplication of names applied to different hollies.

Dr. William Snyder, Rutgers Uni-

versity, New Brunswick, N. J., reported on the university's studies with gibberellic acid, stating that the substance causes an increased rate of growth in many woody plants. Due mostly to an elongation of internodes, the increased growth is typically spindly and yellow in color. The response is governed by the type of plant and the rate and frequency of application of the chemical. Dr. Snyder reported that no response has been observed in holly treated with

[Concluded on page 68]

## University Research Compares Holly Propagation Methods

In a talk delivered April 11 at the Holly Society of America meeting at the University of Delaware, Newark, Dr. C. W. Dunham, of the department of horticulture, described recent research conducted by the university in the propagation of American holly. Dr. Dunham's report follows:

One phase of the plant propagation project at University of Delaware dealt with a comparison of automatic watering systems. American holly was one of the species included in this study. Cuttings were taken August 10 from two American holly trees on the university campus. All cuttings were treated with a rooting hormone. The treatments

were replicated three times and were set up in a greenhouse in plots given constant-level subirrigation or intermittent mist.

To construct the constant-level subirrigation plots, we lined the benches with polyethylene film to make them watertight. Water from an oil burner valve dripped in at one end of the bench and overflowed at the far end, maintaining a constant reservoir of water about a quarter of an inch deep in the bottom of the bed. A layer of coarse gravel covered the bottom of the bed, and about five inches of rooting medium was placed over the gravel. The mist plots were similar in con-

[Continued on page 40]

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# Marketing of Bare-Root Rose Plants

By J. P. Mahlstede

Department of Horticulture, Iowa State College, Ames, Ia.

Although there are a number of ways in which bare-root hybrid tea roses can be packaged for display on the retail counter, there are essentially two basic packs. One of these involves the use of a moist medium, such as sphagnum or shingletow, held tightly in place with a sheet of impregnated or polyethylene-kraft paper. This unit is then placed in a waxed, printed, kraft root bag, fastened securely at the crown by means of a double looped wire, and the canes are waxed. The canes are generally 18 inches in length or longer.

The second basic method of packaging involves a bare-root rose that is slipped inside a 1½-mil clear polyethylene bag. The root system is then encased in a square display carton. These plants are generally trimmed back considerably more than plants packaged by the older method described.

A preliminary experiment conducted at Iowa State College, Ames, was designed to determine what method or methods of packaging are best, both from the retailer's and consumer's standpoints. In addition it was hoped that factors which stimulate impulse buying of plant materials could be ascertained. Related studies were planned to determine what influence the type of market had on the type of package purchased and the subsequent care given to the plant material by the customer and to determine the relationship between the type of package and the rate of sale.

## Test 10 Package Styles

In conducting the experiment, 130 No. 1½ Crimson Glory and a similar quantity of Eclipse hybrid tea roses were packaged, 13 per treatment, in each of 10 types of packages. These packages had differing combinations of such factors as clear and opaque over-all polyethylene bags; cardboard boxes and polyethylene and kraft root bags, clear, opaque and printed; waxed canes; moist packing about roots, and lack of packing.

These plants were packaged the week of April 16 in a common storage vault at the horticulture farm at Iowa State College. April 21, plants packaged in each of the 10 package treatments were delivered to three garden centers in central Iowa. These salesyards were so selected as to represent markets whose primary trade

was with farm, urban and urban-city persons.

All packs were then placed in a mass display within a radius of 10 feet from the cash register at each of the three locations. During the course of the subsequent sales period no effort was made specifically to sell these plants in preference to others handled by the salesyard. After the customer had selected one or more plants and had taken them to the cash register, an addressed, stamped envelope containing a questionnaire was given him. This envelope had in the upper left-hand corner a number which corresponded to the code number of the pack purchased. The questionnaire contained questions relative to the reasons why the particular pack was purchased. At the time of the sale, the nurseryman recorded the date of sale in addition to the name and address of the customer.

## Sales Observations

After a period of 54 days all nurseries were again contacted and interviewed in connection with observations made during the sales period. In addition, all packages not sold were collected and returned to Ames for final appraisal. Nursery report sheets containing the names and addresses of customers were also collected at this time.

June 30, a selected list of customers who had purchased one or more of the test packages in the rural and urban-city markets were contacted

and interviewed. Observations on field performance, care and maintenance were recorded at each place of interview.

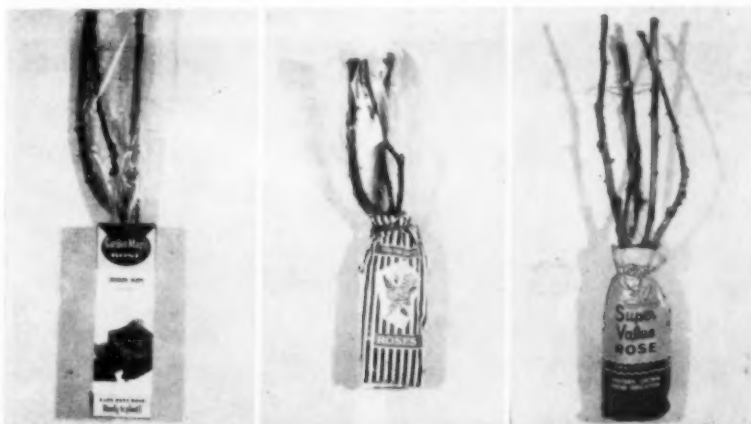
The average price set by the salesyard varied slightly for three or more packages, although the unit price per single plant approximated \$1 in each of the three locations. There was no direct competition in the vicinity of the display from larger-size, packaged bare-root roses. However, at all three locations, competition from the middle of the sales period on was afforded by container-grown stock in full leaf. The main factor regarding differential sales between container-grown stock and packaged, dormant nursery stock was the price.

From personal interview with the nurseryman concerned, it was learned that the type of market or persons patronizing the salesyard had considerable influence on the type of package selected and sold. At the location servicing a rural-farm market, it was the observation that since the customer was not acquainted with the varieties of roses available, color was the most important consideration. Over 50 per cent of the customers, after expressing color preference, usually solicited sales personnel for advice as to the best variety to purchase in that color range.

## Influence of Started Buds

In selecting one plant or several plants of the color type preferred, the customer would examine the

[Continued on page 76]



Dormant rose packaging: Left, the new root-box display unit, a neat, attractive package which can easily be stood in an upright position; center, a dormant rose packaged in a gaily colored polyethylene bag, a moist root-packing medium and an over-all clear 1½-mil polyethylene bag, and right, the standard rose pack, a good seller with clear waxed canes and an attractive moss-filled root wrap.



## Tips for Better Landscapes

# Varied Uses for Two Unusual Shrubs

By Clarence E. Lewis

Department of Horticulture, Michigan State University, East Lansing, Mich.

Shrubs with an unusual appearance are, in general, little used and grown by few nurserymen. This was true of the leather-leaved viburnum (*Viburnum rhytidophyllum*) 25 years ago and is somewhat the case today. The oak-leaved hydrangea (*Hydrangea quercifolia*) falls into the same class, but has gained a little in popularity.

The leather-leaved viburnum produces stiff, ascending branches and ordinarily develops into a shrub of six to eight feet, although it may reach 12 feet under ideal conditions. I remember one plant, growing in a light soil in full sunlight and protected from winds, that was no more than six feet high, even after 15 years.

One writer states that this species is without charm or grace. This is determined by what one expects of a plant, and we all have varying interpretations of plant charm and grace. However, if one were to look at an unprotected plant in late February and early March he would probably decide that it leaves something to be desired. But this is true of many broad-leaved evergreens when they are left to struggle with the elements.

The oppositely arranged leaves are long—four to eight inches—with veins so deeply embedded that the leaves look wrinkled, as may be seen in illustration A. They have a dark,

glossy green appearance on dull days, and a light to gray-green effect on sunny days, but, compared with the leaves of a rosebay rhododendron, they are usually a lighter shade of green. The undersides of the leaves are covered with a cinnamon-gray to yellowish-gray woolly coating, which protects them from insect troubles. The fall color is ordinarily green, but the leaves sometimes take on a slight purplish shade.

The older stems are dark gray to black, but the young branches have a distinct cinnamon-gray woolly coating; even with this protective covering, plants exposed to strong winter winds may get nipped in northern states. Young plants seem to be less hardy than older ones. If young plants can be well protected by other plants or by a fence, they will soon become established and survive the rigors of winter.

The leather-leaved viburnum was introduced into cultivation at about the beginning of the present century and originally was found in central and western China.

### Flowering Characteristics

The flower buds also are covered with a cinnamon-gray woolly coating, which aids in concealing them well enough to allow spring flowering. The flower buds seem to come in separate bunches but combine to form the complete cluster, as may be

seen in illustrations A and B. The yellowish-white flowers make their appearance about May 15 in areas comparable to New York city and southern Ohio, but may not open until early June in Boston, Buffalo or Chicago. The flower clusters are in the form of cymes that may be as broad as six inches or as narrow as four. The odor is not particularly desirable, but one does not have to consider this as an important factor in placement, since the flowers last only about two weeks.

The fruits become noticeable in early September, changing from green to red and finally to glossy black. They usually last through October. The plants are most colorful when some fruits are black and some red, particularly when there are many well-developed fruits to each cluster. The flowers are somewhat self-sterile, which means that several plants should be used in order to get a good supply of fruit. Single plants are not generous in their bearing of fruit, which is an important consideration when selecting this viburnum for effective landscape plantings. The size of fruit clusters can be as much as six inches in diameter, possibly even an inch or two more.

The best planting location is on the north or northeast side of a building, and the soil does not have to be well supplied with organic matter, although it is recommended. If the



Illustration A—The deeply veined leaves of *Viburnum rhytidophyllum* have a wrinkled effect.



Illustration B—Flowers of the leather-leaved viburnum are creamy-white, but not pleasingly fragrant.



Illustration C—The large leaves of *Hydrangea quercifolia* do resemble those of the northern red oak.





Illustration D—The tips of the stems and buds of the oak-leaved hydrangea are covered with a cinnamon-gray coating.



Illustration E—The old seeds of the oak-leaved hydrangea remaining on the shrub as dried specimens during most of the winter are not attractive, although sterile florets sometimes take on an attractive pink to purplish coloration in late fall.

shrubs are to be used in a shrub border, then it would be desirable to provide a windbreak in the form of a group of evergreens or dense-growing deciduous shrubs. Under such growing conditions the leather-leaved viburnum can withstand temperatures to 10 or 15 degrees below zero. The plant should not be located where it gets considerable heat reflection from a brick or stone wall, particularly in a crowded area where there is poor circulation of air.

There is a pink variety, *Viburnum rhytidophyllum roseum*, which has flowers that are pink in bud but open more as a white flower. There is supposedly a golden variegated form, too, with which I am not familiar.

#### Landscape Uses

Just how, where and why should one use such a broad-leaved evergreen as this? It makes a reasonably good transition plant between such rhododendrons as *R. maximum* and deciduous shrubs, and its appearance suggests it can be used as a tropical plant, or with Spanish and Italian types of architecture. The loose form also recommends it as a background for a pool, particularly if the pool is in a secluded, shady location. Yes, it grows well in the shade and makes a pleasing contrast with rhododendrons that possess larger leaves. It can be used as a single plant in a patio if it is not where it becomes beaten by the wind and dried by the winter sun and wind.

It is something of a conversation plant, being different enough to prompt visitors to ask questions about it and to prompt the owner to read about it, so that he is better equipped to inform his friends. The shrub can be trained as an espalier where a wall

of fair size is to be covered. The drooping leaves are quite attractive when viewed against a wall, and they combine well with the flowers of wistaria, which may be used in the same planting.

The other large-leaved plant that was first mentioned, *hydrangea quercifolia* (oak-leaved hydrangea), may be a little more difficult to use and not so easily combined with other shrubs. It usually does not grow over five to six feet tall and can easily be kept to three or four feet by occasional pruning.

#### Foliage Color

The oaklike leaves shown in illustration C are nearly one foot long in a few instances and about five to six inches across. The color is a soft gray-green on the leaf top surface and woolly white beneath. The oppositely arranged leaves are tinged with bronze when they first appear in the spring. The fall colors vary from red to orange to purple, more often purplish, but there is no objection to the colors because of the blending tones.

This shrub has a stoloniferous habit, which can be advantageous in a planting along a shady stream bank. The young stems, like the one shown in illustration D, have a velvety, cinnamon color which sometimes turns to a gray tan as they mature. This adds to the attractiveness of the plant. If yearly pruning is practiced, so that new basal stems are regularly produced, then the orangey color is more prominent. Pruning should be encouraged.

The large flowers appear about mid-July and persist on the plant as dried specimens until midwinter or

later, as shown in illustration E. The sterile florets often take on an attractive pink to purplish coloration in late summer and early fall. The seeds or fruits that develop as a part of the dried flower cluster are not attractive.

The oak-leaved hydrangea was first introduced into cultivation at the beginning of the nineteenth century and is indigenous to Georgia, Florida and Mississippi. Even though it is a southern plant, it grows well in the northern states and has survived temperatures of 10 or more degrees below zero. Occasionally there is some top injury, but this is not serious, since it encourages pruning, which might not be done otherwise.

When the stems have been allowed

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Illustration F—The older stems of *Hydrangea quercifolia* have a distinct exfoliating bark.

## The Modern Garden Center

# Training a Sales Force

By Jack Schneider

In the retail business there is an axiom to the effect that nothing happens until a sale is made. This is as true in the nursery and garden center business as in any other. Naturally, the first thing necessary to any sale is a customer. How the customer was attracted to the store is another facet of the business and has been dealt with countless times. How to deal with the customer in an individual sale is the subject of this article.

Satisfied customers are the only kind worth having, and if they are not well satisfied, they will not come back again. Giving these people the proper information and selling them the proper materials necessary for their job is of great importance. Tie-in sales are the profit builders in any business and often do the customer a great service. Anyone can be an order taker, but the real salesman is the one who builds up a low sale to a higher figure without pressing the customer.

For the purposes of this article, let us consider a modern, clean, well-stocked establishment with adequate parking and well-displayed and clearly priced merchandise. The clerks are neatly dressed and do not stand in groups talking to one another. I believe that some type of uniform is essential in order to identify the clerks. Uniforms can usually be rented from linen or overall supply houses on a monthly basis. In this way the uniforms are always clean and in good repair. Some sort of an arrangement may be made with the employees to share the cost of these uniforms.

### Cooperative Training Program

The training of salesmen is of great importance, and it is up to the employer to institute some sort of planned program to train his salesmen and continue to keep them informed. At one time a number of other nursery operators in the area and I hired a sales training expert to give a series of evening lectures to our employees. A series of six lectures spread over a 2-month period was scheduled. The cost was prorated according to the number of employees attending from each nursery.

We had an average attendance of

40 people for the six meetings at a total cost of about \$200. Meetings were held in the stores of several of the participating nurseries and were started promptly at 8 o'clock. They generally lasted until 10 o'clock, with a break at 9 o'clock. Light refreshments were served after the lectures, which gave the nursery employees a chance to become better acquainted and discuss some of their mutual problems. Having the meetings in the store areas gave the lecturer an opportunity to use products familiar to the persons attending in demonstrating various sales techniques.

At my own nursery, I have weekly or semimonthly sales breakfasts during the busier seasons. Sometimes these are held at one of the local restaurants or in the store, where we have kitchen facilities for handling such a group. Our normal opening hour is 8:30, so we meet an hour earlier, have breakfast and hold our sales meeting during this time.

### Sales Meeting Topics

Often we invite various suppliers to discuss the merits of their products and also explain about new ones. Also, we assign some of our employees various topics, particularly of a seasonal nature, and have them report briefly on these. We discuss policy, in many cases, in regard to such things as deliveries and replacements. We try to train our salesmen to know the product that is being sold, how to approach the customer and how to sell more than the customer asks for.

The proper approach to a customer is important. Ordinarily, a friendly word of "Hello" or "Good Morning" or "Good Afternoon" is sufficient greeting; most customers will immediately state their business. A salesperson should not bustle up and interrupt a customer who is looking at some article, without paving the way for his approach. Mentioning the article that the customer is examining will often lead to a sale of an item that was not uppermost in the customer's mind when he or she first entered the sales area.

Knowing the product or plant material in question is of great importance. In this particular, sales training pays off in dollars. If the cus-

tomers feel that the salesman knows what he is talking about, the chances of closing the sale are much greater than if the salesman shows a lack of knowledge of the item. Enthusiasm in selling is a highly desirable sales trait, but this enthusiasm should not be blatant.

### Tie-In Sales

Toward the end of the sale, the salesman should mention allied lines or materials necessary to the proper planting of the item being sold. It is a poor practice to sell an expensive shrub or tree and then neglect to explain to the customer the necessity of correct planting. Suggestions on spraying, fertilizing, putting out slug bait, etc., not only add extra items to the sale but also help insure that the customer will be satisfied with the growth of the plant he purchased.

In selling garden supplies and equipment it is just as easy to sell additional items as it is in nursery sales. One should not sell a lawn mower without making an attempt to sell a grass catcher along with it. A salesperson should not sell insecticide without asking the customer if he has an adequate sprayer for applying this product. The price should be the last thing to be brought up in connection with an article.

However, it is far better to have all items in a modern garden center properly labeled and priced. This avoids much embarrassment and misunderstanding and saves much time, especially during rush seasons. Pricing gives the customers confidence in a place of business and also makes it unnecessary that the owner or manager wait on many customers. A policy of maintaining firm prices — no exceptions to anyone — will build respect among one's customers.

Many people are too shy to ask the price of an article that is not marked for fear it may be more than they want to pay. Salespersons also are often reluctant to show a certain unpriced item for fear of embarrassment of the same kind. The tendency is to underquote on an article that is not marked.

Descriptive signs on plant material are great aids in selling. Customers like to browse in a nursery

[Continued on page 52]

# Insect Pests of Honey Locust

By Donald L. Schuder

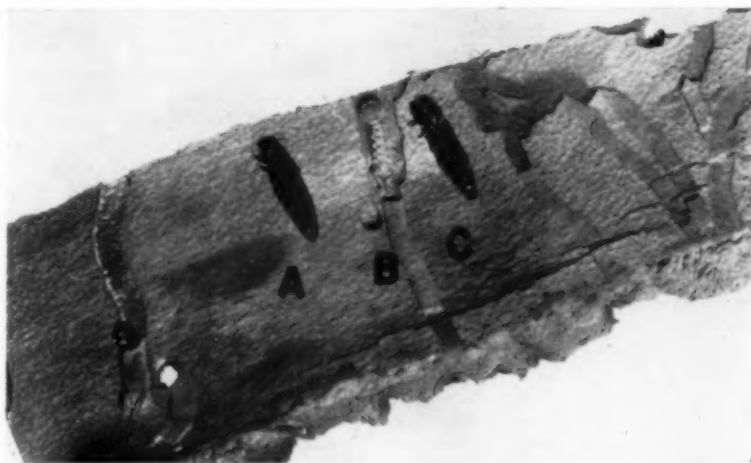
Department of Entomology, Purdue University, Lafayette, Ind.

Honey locusts, particularly the clones of the thornless varieties such as Moraine, Imperial and Sunburst, are becoming increasingly popular as shade and ornamental trees. With the increased planting of these trees, there is a corresponding increase in the kinds and numbers of insect pests which attack them in Indiana and, presumably, in other states. This is a typical insect-plant relationship, for whenever any crop, whether it be trees or grain, is grown intensively, the insect problems increase in proportion. With heavy use of clonal propagation, the problem of insect pests is often multiplied manifold, because clonal populations are all alike. Insect and disease problems may develop rapidly and wipe out the entire plant population. This is exactly the opposite effect to what exists with monotypic species, for the latter are usually disease and insect-free, as shown by ginkgo, metasequoia and katsura trees.

During the past several years, several kinds of insects have been attacking honey locusts in Indiana. Because of the potential importance of insect problems in new home plantings, it is desirable to call attention to these pests.

The mimosa webworm, *Homa-daula albizziae* Clarke, attacks both mimosa and honey locust in the southern half of the state and has been present in the Indianapolis area since 1953. Injury done by the second generation of this caterpillar is particularly noticeable in August.

The moths have a wingspread of



The honey locust borer and its typical injury to the honey locust. The adult is a typical metallic wood-boring beetle as seen from the top at A and the bottom at C. The yellowish larva is shown at B.

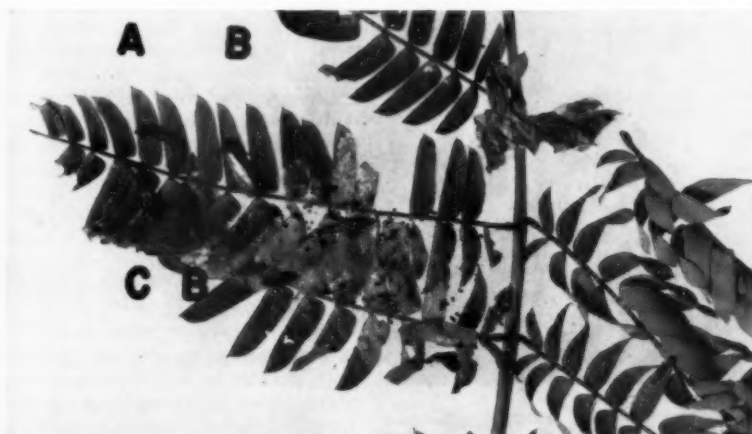
one-half inch and are silvery-gray, with wings lightly stippled with black spots. The moths appear in June and lay their eggs on the foliage. The larvae are dark brown, diffused with pink, and are about one-half inch long. They feed in colonies in the webbing spun over the foliage, skeletonizing the underside of the leaflets. The injured leaflets turn brown, and the entire tree looks as if it had been scorched by fire. In midsummer the larvae either pupate in the web or drop to the trunk or soil where they spin flimsy cocoons in cracks and crevices of the bark or in the ground cover. The second-generation adults emerge in early August, and the cycle is repeated.

Injury by the mimosa webworm can be prevented by spraying susceptible species and varieties in mid-June and mid-August with either DDT, toxaphene or lead arsenate. (Westcott, 1956).

The honey locust borer, *Agrilus difficilis* Gory, was found attacking vigorously growing honey locust trees at Lafayette, Ind., in 1956. The larva is a typical flat-headed borer, which burrows beneath the bark and eventually girdles the tree. As one of the first symptoms of infestation the tree will exude large quantities of gum around infested nodes. The adult beetles, which emerge in June, are about one-half inch long, elongate and black with a metallic luster. There is one generation annually. No control measures are known at present. Lindane sprays did not control established infestations. A spray of ethylene dibromide emulsion may prove effective. (Blatchley and Leng, 1916; Westcott, 1956).

The honey locust pod gall, *Cecidomyia gleditshiae* O.S., was first observed in 1866 and is common on honey locust in Connecticut, New York, New Jersey and Indiana. The leaflets are folded along the central vein so that the edges are brought together, forming a podlike gall. One to three larvae develop within a gall, and the adult flies emerge in June and July. (Cook, 1905).

The honey locust mite, *Eotetranychus multidigituli* (Ewing) [*Tetranychus elloipticus* Garman], has de-



The mimosa webworm and its characteristic injury to honey locust foliage. The pinkish larva may be seen at A, the silver-colored adults at B and the pupa at C.

[Continued on page 90]



## Temperature Control Feature of New Building

Recently completed in an expansion of facilities at the nursery of Brookdale-Kingsway, Ltd., Bowmanville, Ont., Canada, is a new 2-story structure, 70 feet wide and 110 feet long, which will serve as a garage and storage building. Located beside a railroad siding, the quarters will be used as a loading point for spring shipments of stock and as a receiving depot for incoming shipments during the winter. Grading and counting machines installed in the building will make possible the completion of all preliminary receiving operations before new stock is placed in the nursery's storage cellars, according to Norman Scott, general manager.

Prior to construction of the new building, grading of incoming stock was carried on in the storage cellars. This, however, proved to be an unsatisfactory arrangement, since the coming and going of workers engaged in grading made it difficult to maintain even temperatures in the storage areas. The new building will permit reduction of traffic in the cellars to a minimum.

The recently added building will

be tied in with an elaborate equalized controlled temperature system that was engineered for the firm, with an initial installation in a similar quonset-type structure. This system was the result of long investigation of methods which might reduce the hazards of cold snaps in winter, warm spells in early spring. In view of the fact that up to \$1,000,000 worth of stock might be in the storage quarters, an adequate solution to the temperature problem had become highly important.

Mr. Scott felt that a unitized rather than a central control system was needed for the safety of the establishment with its million cubic feet of storage space. Under such a system, a number of localized heating units would be protecting limited areas and portions of the stock. No standard systems could be discovered to fit the ideas, but eventually a climate control system was worked out, utilizing a unitized perimeter warm air system, with a humidifier, coupled to a mechanical refrigeration unit.

For the first installation, a Clare-

Hecla 250,000 B.T.U. model 250 O. L. B. unit was set up in a corner of one of the cellars, at second floor level. Duct work, made up on the spot by the contractor, was run along each of the two sidewalls, with warm air sent directly into the room from vents on the outside of the duct work and indirectly bounced off the wall from vents along the inside edge of the ducts. Thermostats were installed at the known cold spots in the cellar and connected to motorized valves in the system designed to feed warm air to localized sections of the storage room as required. Additionally, the heating unit was vented to the outside of the building, so that a constant circulation of fresh air could be maintained.

To prevent excessive accumulation of condensation on the walls, which would have caused rapid deterioration of the building, where the installation was made, the sides of the cellar were reconstructed to incorporate a 4-inch air space between an inner and outer shell.

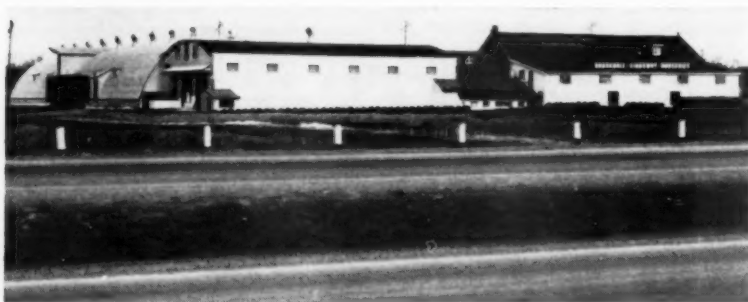
Planning for the upper-level control part of the system—the refrigeration unit—has been completed, and the work will be started shortly. The cooling unit will be mounted right next to the heating unit and will utilize the existing duct work and fans for the circulation of air.

The new building is joined to the nursery's older structure, so that it is not necessary for employees to go outdoors in passing from one building to the other. Further convenience, as well as a reduction in working time lost, was provided by the installation of new toilet facilities, none of which is farther than 100 feet from any point in the working areas within the buildings.

Even before the addition of the new building, officers of Brookdale-Kingsway had found an intercommunication system essential to efficient operations in the large, L-shaped nursery headquarters, extending 370 feet in one direction and 250 feet in the other and varying in width from 60 to 80 feet. The former intercommunication system has now been replaced by an improved installation that includes several master stations and incorporates a DuKane sound system, which transmits music to all parts of the buildings through a network of high-fidelity speakers.

The sound system is coupled with a Seeburg record player, which plays both sides of up to 100 records automatically. The record player is regulated by the nursery's time clock to play only during working hours. An

[Concluded on page 95]



Above, L-shaped arrangement of storage and work buildings, with railroad siding at left, at nursery of Brookdale-Kingsway, Ltd., Bowmanville, Ont.; below, new heated storage building where grading of incoming stock can be done before removal to storage cellars.





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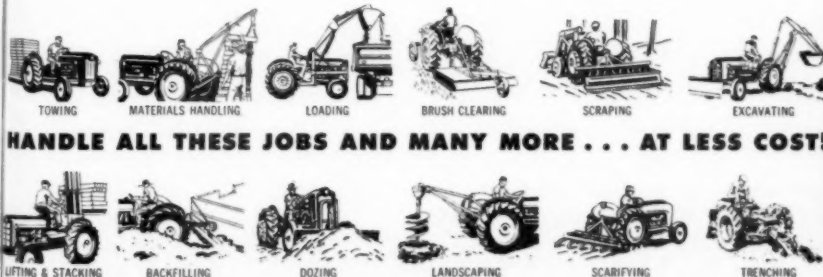
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## COMING EVENTS

### MEETING CALENDAR

May 21 to 24—Western chapter, National Shade Tree Conference, Disneyland hotel, Anaheim, Calif.

May 22 to 24—Florida Nurserymen and Growers Association, annual convention, Golden Gate hotel, Miami Beach, Fla.

May 26 to 28—Short course for Texas nurserymen, Agricultural and Mechanical College of Texas, Memorial Student Center, College Station, Tex.

June 1 to 3—Alabama Nurserymen's Association, annual convention, Hotel Stafford, Tuscaloosa, Ala.

June 2 to 4—Nurserymen's short course, Southwestern Louisiana Institute, Lafayette, La.

June 4 and 5—California Association of Nurserymen, annual refresher course, California State Polytechnic College, San Luis Obispo, Calif.

June 8 to 10—Georgia State Nurserymen's Association, annual convention, Bon Air hotel, Augusta, Ga.

June 15 to 17—South Carolina Nurserymen's Association, annual convention, Poinsett hotel, Greenville, S. C.

June 18 and 19—Missouri State Nurserymen's Association, annual meeting and short course, University of Missouri, Columbia, Mo.

June 19 to 20—Short course for Florida nurserymen and growers, University of Florida, Gainesville, Fla.

June 22 to 24—Mississippi Florists and Nurserymen's Association, annual convention, Edwards hotel, Jackson, Miss.

June 22 to 24—Mississippi Florists' and Nurserymen's Association, joint convention of Nurserymen, Cortez hotel, El Paso, Tex.

June 25 and 26—Illinois State Nurserymen's Association, short course, Morton Arboretum, Lisle, Ill.

July 7 and 8—New York State Nurserymen's Association, summer meeting, Hawthorne Circle Motor Inn, Hawthorne, N. Y.

July 9—Connecticut Nurserymen's Association, summer meeting, Lake Compounce, Bristol, Conn.

July 19 to 24—American Association of Nurserymen, annual convention, Statler-Hilton hotel, Dallas, Tex.

July 30—New Jersey Association of Nurserymen, summer meeting, Rutgers University, New Brunswick, N. J.

August 6 to 8—West Virginia Nurserymen's Association, summer meeting, West Virginia University campus, Morgantown, W. Va.

August 7 and 8—Iowa Nurserymen's Association, summer meeting, Blackhawk hotel, Davenport, Ia.

August 10 to 12—National Mail Order Nurserymen's Association, summer meeting, Hotel La Salle, Chicago, Ill.

August 12 and 13—Michigan Association of Nurserymen, annual nursery and landscape management conference, Kellogg center, Michigan State University, East Lansing.

August 12 to 14—Ohio Nurserymen's Association, summer meeting, Star Dust motel, Sandusky, O.

August 13—Pennsylvania Nurserymen's

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- Includes AARS Winners and the most wanted Popular and Patented Hybrid Teas, Babies, Climbers and Floribundas.

See complete list at right.

## LIST OF ROSE PICTURES AVAILABLE

### Nonpatented Hybrid Teas

American Beauty  
Angel's Mateu  
Autumn  
Betty Uprichard  
Christopher Stone  
Condesa de Sastago  
Countess Vandal  
Crimson Glory  
Dainty Bess  
Duquesa de Penaranda  
Eclipse  
Edith Nellie Perkins  
Editor McFarland  
Ena Harkness  
Etoile de Hollande  
Frau Karl Druschki  
Girona  
Joanna Hill  
K. A. Viktoria  
Lulu  
Margaret McGredy  
Mme. Edouard Herriot  
Mme. Jules Bouche  
Mrs. Charles Bell  
Mrs. E. P. Thom  
Mrs. P. S. du Pont  
Mrs. Sam McGredy  
McGredy's Ivory  
McGredy's Scarlet  
McGredy's Yellow  
Nigger Boy  
Picture  
Pink Dawn  
Poinsettia  
President Hoover  
Radiance  
Red Radiance  
Shining Star  
Signora  
Sister Therese  
Snowbird  
Talisman  
Texas Centennial  
The Doctor  
Virgo  
Will Rogers

### Nonpatented Floribundas

Betty Prior  
Cecile Brunner  
Charlie McCarthy  
Else Poulsen  
Eutin  
Floradora  
Frensham  
Garnette  
Improved Lafayette  
Poulsen's Bedder  
Red Ripples  
Rose Elfe  
Royal Chinook  
Snowbank  
The Fairy

### Nonpatented Climbers

Cl. American Beauty  
Cl. Cecile Brunner  
Cl. City of York  
Cl. Doubleloona  
Cl. Etoile de Hollande  
Cl. Gold Rush  
Cl. New Blaze  
Cl. New Dawn  
Cl. Paul's Lemon Pillar  
Cl. President Hoover  
Cl. Snowbird  
Cl. Talisman  
Cl. White Dawn

### Patented Hybrid Teas

Blanche Mallerin  
Buccaneer  
Burnaby  
Capistrano  
Charlotte Armstrong  
Chrysler Imperial  
Confidence  
Dean Collins  
First Love  
Fort Knox  
Fort Vancouver  
Forty-Niner  
Fred Edmunds  
Fred Howard  
Golden Masterpiece  
Good News  
Grande Duchesse Charlotte  
Helen Traubel  
Love Song  
Lowell Thomas  
Mirandy  
Mme. Henri Guillot  
Mojave  
Montezuma  
New Yorker  
Nocturne  
Peace  
Pink Favorite  
Queen Elizabeth  
Roundelay  
Saturnia  
Sutter's Gold  
Tallyho  
The Duke  
Tiffany  
White Knight

### Patented Floribundas

Amy  
Carrousel  
Circus  
Encore  
Fashion  
Fusilier  
Gold Cup  
Goldilocks  
Jimmy Cricket  
Ma Perkins  
Pinkie  
Pinocchio  
Red Pinocchio  
Spartan  
Vogue  
White Bouquet  
World's Fair

### Patented and Novelty Climbers

Cl. Blossom Time  
Cl. Chrysler Imperial  
Cl. Coral Dawn  
Cl. Crimson Glory  
Cl. Dr. J. H. Nicolas  
Cl. Gladiator  
Cl. Golden Showers  
Cl. High Noon  
Cl. Parade  
Cl. Pinkie  
Cl. Spectacular

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# KELTHANE

## helps prevent mite damage to TREES, FLOWERS, SHRUBS and ORNAMENTALS

Why put up with mite damage to your nursery or greenhouse plantings, when there's one sure way to prevent it? New Rohm & Haas KELTHANE miticide controls spruce mites, red spider mites, cyclamen mites and several others . . . even so-called "resistant" species.

One spraying of KELTHANE provides long-lasting residual action. No need to repeat spray for several weeks.

In recommended dosages, KELTHANE EC emulsifiable concentrate has a good margin of safety when applied to plants, buds and flowers. And there's no visible residue to hinder sales.

For extra-sensitive varieties, KELTHANE W wettable powder is suggested. Both KELTHANE formulations mix readily with water. Insecticides and fungicides may be included in the spray.

See your Rohm & Haas fieldman . . . or write direct for full information.

KELTHANE is a trademark, Reg. U.S. Pat. Off. and in principal foreign countries.



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COMPANY**

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

Representatives in principal foreign countries

Association, summer meeting, Conard-Pyle Co. establishment, West Grove, Pa.

August 20—New England Nurserymen's Association, summer meeting, Adams Nurseries, Westfield, Mass.

August 24 to 26—Southern Nurserymen's Association, annual convention, Hotel John Marshall, Richmond, Va.

August 24 to 27—Texas Association of Nurserymen, annual convention, Commodore Perry hotel, Austin, Tex.

August 25 to 29—National Shade Tree Conference, Vanderbilt hotel, Asheville, N. C.

September 11 to 13—Louisiana Association of Nurserymen, annual convention, Blackham Coliseum, Southwestern Louisiana Institute, Lafayette.

September 16 to 18—California Association of Nurserymen, annual convention, Rickey's Studio Inn, Palo Alto, Calif.

### LOUISIANA COURSE

Announced recently by James A. Foret, professor of horticulture, Southwestern Louisiana Institute, was the program for the nurserymen's short course to be held on the institute campus at Lafayette, La., June 2 to 4. After registration Monday morning, June 2, the program continues as follows:

#### MONDAY, JUNE 2

1:30 p. m. — "New Hollies for the South," by Fred Galle, Ida Cason Gardens, Chipley, Ga.

3:15 p. m. — "The Future in Louisiana Fruit Production," by Dr. E. N. O'Rourke, Louisiana State University, Baton Rouge.

7:00 p. m. — Get-acquainted Dutch treat supper.

#### TUESDAY, JUNE 3

8:30 a. m. — "Soils Analysis and Lime Applications," by Dr. C. C. Cain, S. L. I.

10:30 a. m. — "How To Buy Fertilizer," by Dr. Warner Anthony, Farm Service, Inc., Opelousas, La.

1:30 p. m. — "Why and How Plants Are Named," by L. S. Nelson, S. L. I.

3:15 p. m. — "Louisiana Lawn Grasses," by J. M. Peek, S. L. I.

#### WEDNESDAY, JUNE 4

8:30 a. m. — "Nematodes, Their Identity and Some Cultural Practices To Minimize Injury," by Leigh Whitlock, nematologist, United States Department of Agriculture, Baton Rouge.

10:30 a. m. — "Estimating a Planting Job"—Panel discussion, with Max Willingham, Marshall Mugnier, Aubrey Henderson, Wylie Roach and Ed Akin, panel members.

### PROGRAM FOR FLORIDA

The directors of the Florida Nurserymen and Growers Association will meet at the Golden Gate hotel, Miami Beach, Wednesday evening, May 21—the day before the official opening there of the association's convention—for a preview of the convention displays and for the board of directors' dinner and meeting. During the convention proper, which will continue through May 24, the exhibits will open at 8 each morning. The event is programed as follows,





## "Small-job" profits are bigger... with an International CUB® Lo-Boy®

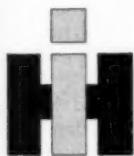


In the nursery, too, the International Cub Lo-Boy supplements bigger tractors to cut costs in many ways. Only 48 3/8 inches in overall width, it works between narrow rows; handles 12-inch plow, and disk or spring-tooth harrows up to 5 feet wide.

**Making a profit on small, low-margin jobs** is often a matter of using the right equipment... and that's where the International Cub Lo-Boy is a "natural."

**You slash overhead**, because the Lo-Boy saves up to \$1,000 in first cost, compared with larger utility tractors commonly used on your larger landscaping jobs. Equipment costs are much less, too.

**You step up manpower efficiency**, compared with costly hand methods. The Cub Lo-Boy handles front-end loader with 6 cubic foot bucket, 54-inch front-mounted dozer, 5-foot rear-mounted blade, 12-inch earth auger, 28-inch rotary tiller, or 5-foot landscape rake... all hydraulically controlled. Operating costs?... two to three quarts of fuel keeps the sturdy Cub Lo-Boy hard at work for a full hour!



It's hard to believe how much work a Cub Lo-Boy can do until you try it! For down-to-earth, brass tacks proof, look in the classified directory and phone your IH Dealer. He'll gladly demonstrate. For catalog, write International Harvester Company, Dept. AN-5, P. O. Box 7333, Chicago 80, Illinois.

SEE YOUR

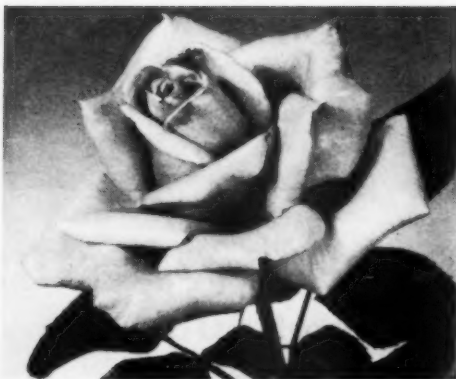
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International Harvester Products pay for themselves in use—Farm Tractors and Equipment... Twine... Commercial Wheel Tractors... Motor Trucks... Construction Equipment—General Office, Chicago 1, Illinois.



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**ROSES**



## **AZTEC** *A '57-'58 Sellout Sure to Repeat!*

Rose people have called it the "brightest rose of the decade"! Aztec's flaming scarlet-orange color, and huge exhibition-perfect blooms, caught the public's fancy fast. From nurseries in every section of the country, reports poured in: "We could have sold many more!" Now the lucky folks who got it have been telling friends how easy it is to grow the vigorous handsomely foliated plant... what a pleasure it is to cut the shapely buds and long-lasting flowers. Demand next season will be way up. Put this one at the top of your order list!

*Write for our Wholesale List!*  
**ARMSTRONG NURSERIES**  
ONTARIO, CALIFORNIA

according to James F. Griffin, Jr., executive secretary:

### THURSDAY, MAY 22

9:00 a. m.—Registration.

12:00 noon—Allied exhibitors' lunch and American Association of Nurserymen lunch.

Panel Discussions:

1:30 p. m. — "Landscaping," with Charles P. Wedding, Wedding Nurseries, St. Petersburg, moderator.

2:30 p. m. — "Advertising and Public Relations," with H. Meyer, moderator.

3:30 p. m. — "Tree Moving and Surgery," with William Brook, Wyldwood Tropical Nurseries, Dania, Fla., moderator.

3:30 p. m. — "Foliage Production," with Jasper Joiner, moderator.

6:30 p. m. — Cocktail party.

7:30 p. m. — Buffet supper.

### FRIDAY, MAY 23

7:45 a. m. — A. A. N. breakfast.

9:00 a. m. — General business meeting.

11:00 a. m. — "Let's Take Another Look at Florida," by R. B. Roberts, vice-president, Florida Power & Light Co.

12:00 noon—Ladies' lunch and Florida Landscape Contractors' Association lunch.

1:15 p. m. — Bus tour of parks, nurseries, Villa Vizcaya and Fairchild Tropical Gardens; barbecue at Fairchild Gardens.

8:30 p. m. — Buses return to hotel.

### SATURDAY, MAY 24

7:45 a. m. — Landscape Contractors' Association breakfast.

9:00 a. m. — General business meeting.

10:00 a. m. — Children's splash party.

11:00 a. m. — "Sales Promotion," by D. Murray Franklin.

12:00 noon—F. N. G. A. board of directors' lunch.

Panel Discussions:

1:30 p. m. — "Nursery Production," with Dr. E. W. McElwee, University of Florida, Gainesville, moderator.

2:30 p. m. — "Landscape Maintenance," with Dr. Gene Nutter, moderator.

2:30 p. m. — "Cut Flowers," with Dr. Sylvan Rose, moderator.

3:30 p. m. — "Turf Problems," by Dr. Eugene Nutter, University of Florida, moderator.

3:30 p. m. — "Taxes," with Raymond Maxwell, moderator.

7:30 p. m. — Banquet.

"The Set of the Sail," by H. T. Shulenberg.

10:00 p. m. — Dancing.

### GEORGIA PROGRAM

An interesting program is being planned for the annual meeting of the Georgia State Nurserymen's Association, to be held at the Bon Air hotel, Augusta, Ga., June 8 to 10.

Howard A. Weibel, sales manager for the garden products division, E. I. du Pont de Nemours & Co., Inc., Wilmington, Del., will have as his subject, "Do You Sell Shrubs or Home Beautification?"

"Growing Plants for and Selling Through the Modern Garden Center" will be discussed by Arthur Lancaster, Coleman Nursery, Inc., Portsmouth, Va.

The department of horticulture, University of Georgia, Athens, will hold a short course jointly with the

# PLUMFIELD NURSERIES, Inc.

P. O. Box 471

FREMONT, NEB.

TERMS: Cash unless satisfactory credit is established. Packing at cost.

DECIDUOUS SEEDLINGS:	Per 100	Per 1000
<i>Acer negundo</i> (Box Elder)		
12 to 18 ins., S.....	\$ 2.40	\$ 20.00
6 to 12 ins.....	1.40	12.00

<i>Amelanchier alnifolia</i> (Juneberry)		
4 to 6 ins.....	3.20	28.00

<i>Ampelopsis vitifolia</i> (Boston Ivy)		
3/16-in. cal., S.....	12.00	100.00
Planters, 2/16-in. cal., S.....	5.50	50.00

<i>Caragana arborescens</i>		
6 to 9 ins.....	1.70	15.00
4 to 6 ins.....	1.25	10.00

<i>Celtis occidentalis</i> (Hackberry)		
2 to 3 ft.....	6.50	60.00
6 to 12 ins.....	1.80	15.00

<i>Cercis canadensis</i> (Redbud)		
4 to 6 ins.....	3.50	30.00

<i>Clematis ligusticifolia</i>		
8 to 15 ins., 1-yr.....	4.50	40.00

<i>Colutea arborescens</i> (Bladder Senna)		
2 to 3 ft.....	6.00	55.00
18 to 24 ins.....	5.00	45.00
12 to 18 ins.....	4.00	35.00

<i>Cornus stolonifera</i> (Dogwood)		
18 to 24 ins.....	6.00	55.00
12 to 18 ins.....	5.00	45.00
6 to 12 ins.....	3.00	25.00

<i>Cotoneaster acutifolia</i>		
6 to 12 ins.....	5.00	45.00
5/32-in. cal., approx.		
12 to 18 ins.....	8.00	75.00

<i>Elaeagnus angustifolia</i> (Russian Olive)		
6 to 12 ins.....	2.40	20.00

<i>Elaeagnus commutata</i> (Silverberry)		
2 to 3 ft.....	9.00	85.00
18 to 24 ins.....	6.50	60.00

<i>Fraxinus lanceolata</i> (Green Ash)		
3 to 4 ft.....	5.50	50.00
2 to 3 ft.....	4.00	35.00
18 to 24 ins.....	3.20	28.00
12 to 18 ins.....	2.40	20.00

<i>Wild River Grape</i>		
No. 1.....	3.50	30.00
No. 2.....	2.50	20.00

<i>Lonicera tatarica</i> (Honeysuckle)		
6 to 9 ins.....	3.20	28.00

## HARDY APPLE UNDERSTOCKS FOR THE NORTH

	Per 100	Per 1000
<i>Malus Columbia</i>		
No. 1.....	\$4.50	\$40.00
No. 2.....	3.20	28.00
<i>Malus Hops</i>		
No. 1.....	4.50	40.00
No. 2.....	3.20	28.00
No. 3.....	2.40	20.00
<i>Malus Manchurica</i>		
No. 1.....	4.50	40.00
No. 2.....	3.20	28.00
No. 3.....	2.40	20.00
<i>Malus Rosybloom</i>		
No. 1.....	4.50	40.00
No. 2.....	3.20	28.00

	Per 100	Per 1000
<i>Morus tatarica</i> (Russian Mulberry)		
18 to 24 ins.....	\$ 3.20	\$ 28.00
2 to 3 ft.....	4.00	35.00
6 to 12 ins.....	1.40	12.00

<i>Prunus americana</i> (Native Plum)		
1/4-in. cal.....	4.50	40.00
No. 1.....	3.50	30.00
No. 2.....	2.75	22.50
No. 3.....	2.10	18.00

	Per 100	Per 1000
<i>Prunus armeniaca</i> (Chinese Apricot)		
2 to 3 ft.....	\$ 8.00	\$ 75.00
18 to 24 ins.....	6.50	60.00
6 to 12 ins.....	2.50	20.00

<i>Prunus besseyi</i> (Western Sand Cherry)		
2 to 3 ft.....	8.00	75.00
18 to 24 ins.....	5.50	50.00
12 to 18 ins.....	3.50	30.00

<i>Prunus japonica</i>		
18 to 24 ins.....	8.00	75.00
12 to 18 ins.....	6.00	55.00
6 to 12 ins.....	4.50	40.00
2 to 3 ft., br.....	27.00	240.00

<i>Prunus melanocarpa</i> (Chokecherry)		
5/32-in. cal., approx.		
12 to 18 ins.....	5.50	50.00
6 to 12 ins.....	4.50	40.00

<i>Prunus padus</i> (Mayday)		
5/32-in. cal., approx.		
10 to 18 ins.....	4.50	40.00
6 to 12 ins.....	4.00	35.00

<i>Prunus serotina</i> (Wild Black Cherry)		
2 to 3 ft.....	5.50	50.00
18 to 24 ins.....	4.50	40.00
12 to 18 ins.....	3.50	30.00
6 to 12 ins.....	2.50	20.00

<i>Prunus tomentosa</i> —Negative		
From seed gathered from virus-free plants.		
2 to 3 ft.....	15.00	130.00
18 to 24 ins.....	9.50	90.00

<i>Prunus tomentosa</i> (Nanking Cherry)		
2 to 3 ft.....	12.00	100.00
18 to 24 ins.....	8.00	75.00
5/32-in. cal.....	6.00	55.00

<i>Pyrus ussuriensis</i> (Korean Pear)		
No. 1.....	5.50	50.00
No. 2.....	4.50	40.00

<i>Quercus macrocarpa</i> (Bur Oak)		
9 to 12 ins.....	7.00	65.00
6 to 9 ins.....	5.50	50.00
4 to 6 ins.....	4.50	40.00

<i>Quercus palustris</i> (Pin Oak)		
2 to 3 ft.....	15.00	140.00
18 to 24 ins.....	12.00	110.00
12 to 18 ins.....	8.50	80.00
9 to 12 ins.....	7.00	65.00
6 to 9 ins.....	5.50	50.00

<i>Quercus rubra</i> (Red Oak)		
18 to 24 ins.....	12.00	110.00
12 to 18 ins.....	8.50	80.00
6 to 9 ins.....	5.50	50.00

<i>Rosa multiflora</i>		
1/4-in. cal.....	5.00	45.00
5/32-in. cal.....	3.50	30.00
8 to 15 ins.....	2.70	22.00

<i>Rhus canadensis</i> (Sumac), three-leaved		
6 to 12 ins.....	3.50	30.00

<i>Syringa villosa</i>		
6 to 12 ins.....	5.00	45.00

<i>Syringa vulgaris</i> (Common Lilac)		
4 to 6 ins.....	2.50	20.00

<i>Ulmus americana</i> (American Elm)		
2 to 3 ft.....	4.00	35.00
18 to 24 ins.....	3.20	28.00

<i>Ulmus pumila</i> (Chinese Elm)		
2 to 3 ft.....	4.50	40.00
6 to 12 ins.....	1.40	12.00

<i>Shepherdia argentea</i> (Buffalo Berry)		
6 to 12 ins.....	4.00	35.00

Send us your list for quotations on large quantities.

## LINING-OUT EVERGREENS:

	Each	Per 10	Per 100	Per 1000
<i>Bare-root</i>				
<i>Admirabilis Creeping Juniper</i>				
12 to 15 ins., TTT.....	\$0.75	\$0.70	\$0.65	
<i>Andorra Juniper</i>				
15 to 18 ins., TTT.....	.95	.90	.85	
9 to 12 ins., TTT.....	.60	.55	.50	
<i>Pfitzer Juniper</i>				
12 to 15 ins., TTT.....	.85	.80	.75	
9 to 12 ins., TTT.....	.70	.65	.60	
6 to 9 ins., TTT.....	.45	.40	.35	
<i>Hetz Juniper</i>				
12 to 15 ins., TTT.....	.85	.80	.75	
9 to 12 ins., TTT.....	.70	.65	.60	
<i>Savin Juniper</i>				
18 to 24 ins., TTT.....	1.45	1.35	1.25	
15 to 18 ins., TTT.....	1.10	1.00	.90	
12 to 15 ins., TTT.....	.85	.80	.75	
9 to 12 ins., TTT.....	.70	.65	.60	
<i>Thuja americana pyramidalis</i>				
18 to 24 ins., TTT.....	1.45	1.35	1.25	
12 to 15 ins., TTT.....	.85	.80	.75	
9 to 12 ins., TTT.....	.70	.65	.60	
<i>Woodward Globe Arborvitae</i>				
9 to 12 ins., TTT.....	.70	.65	.60	
6 to 9 ins., TTT.....	.45	.40	.35	
<i>Thuja Orientalis</i>				
15 to 18 ins., R.P.....	.30	.25	.20	
12 to 15 ins., R.P.....	.25	.20	.15	
9 to 12 ins., R.P.....	.20	.15	.10	
6 to 9 ins., R.P.....	.10	.08	.07	

## CANNED EVERGREENS:

	Each	Per 5	Per 100
<i>Andorra Juniper</i>			
1-gal. can.....	\$1.25	\$1.10	
<i>Irish Juniper</i>			
1-gal. can.....	1.25	1.10	
<i>Koster Juniper</i>			
1-gal. can.....	1.45	1.35	
<i>Taxus cuspidata</i>			
1-gal. can.....	1.50	1.40	
<i>Woodward Globe Arborvitae</i>			
1-gal. can.....	1.25	1.10	
<i>Euonymus alatus compactus</i>			
1-gal. can.....	1.00	.90	
Canned evergreens packed 5 to a basket.			

## SHADE TREES:

	Per 10	Per 100
<i>Elm, American</i>		
1 1/2-in. cal.....	\$35.00	\$325.00
1 1/4-in. cal.....	25.00	225.00
<i>Elm, Moline</i>		
1 1/2-in. cal.....	37.50	350.00
1 1/4-in. cal.....	30.00	275.00
<i>Locust, Honey, Thornless</i>		
1 1/2-in. cal.....	55.00	500.00
1 1/4-in. cal.....	43.00	400.00
<i>Maple, Soft</i>		
2-in. cal.....	55.00	500.00
1 1/2-in. cal.....	35.00	325.00
1 1/4-in. cal.....	28.00	250.00

## SHRUBS:

	Per 10	Per 100
<i>Cydonia japonica</i>		
2 to 3 ft.....	\$5.50	\$50.00
18 to 24 ins.....	4.40	38.50
<i>Honeysuckle, Carlton, red</i>		
3 to 4 ft.....	6.50	60.00
2 to 3 ft.....	5.50	50.00
<i>Hydrangea, P. G.</i>		
18 to 24 ins.....	5.50	50.00
<i>Lilac, rothomagensis</i>		
18 to 24 ins.....	5.00	45.00
<i>Lilac, villosa</i>		
18 to 24 ins.....	4.50	40.00
12 to 18 ins.....	2.90	25.00
<i>Spiraea foebell</i>		
2 to 2 1/2 ft.....	5.50	50.00
18 to 24 ins.....	4.50	40.00
15 to 18 ins.....	4.00	35.00
<i>Spiraea multiflora</i>		
3 to 4 ft.....	6.50	60.00
2 to 3 ft.....	5.50	50.00
18 to 24 ins.....	4.50	40.00
<i>Spiraea vanhouttei</i>		
2 to 3 ft.....	4.50	40.00
18 to 24 ins.....	3.50	30.00
12 to 18 ins.....	2.60	22.00

PROMPTLY AVAILABLE.



# NOW! the most complete line nichols NEVER-STAIN ALUMINUM grass stop



**EASY TO SELL!  
BIG PROFITS!**

## ALL HEAVY GAUGE WITH SAFETY EDGE

- The only grass stop guaranteed by Good Housekeeping
- Nationally advertised to over 63,000,000 prospects in leading shelter and garden magazines
- New colorful carry-out packaging
- Traffic stopping self-service display



### PACKAGING AND ORDERING DATA

PACKAGE NO.	LENGTH PER ROLL	GIRTH	COILS PER CARTON	SH'PG. WT. LBS PER CTN.
G-24*	24 ft.	4"	10	20
G-4*	40 ft.	4"	6	20
G-6*	40 ft.	4"	6	25
G-66	40 ft.	6"	6	37
G-8	40 ft.	8"	6	40

\*With special carry-out handle

\*\*EXTRA HEAVY weight — Individually Boxed

### RUSTPROOF ALUMINUM

## PLUS NEW! Flower Fabric

### IN 2 EXCITING FINISHES LUSTRE-BRITE and LUSTRE-GREEN

- Pre-sold through national advertising to over 63,000,000 prospects
- Guaranteed by Good Housekeeping
- New red-white-blue self-service display packaging
- Complete with all hardware and erection instructions



### PACKAGING AND ORDERING DATA

PACKAGE NO.	FINISH	LENGTH	WIDTH	PACKAGES PER CTN.	SH'PG. WT. LBS. PER CTN.
F-8	Lustre-Brite	96"	24"	6	21
F-8G	Lustre-Green	96"	24"	6	21

**nichols** WIRE & ALUMINUM CO.  
DAVENPORT, IOWA

nurserymen's annual meeting. Dr. F. E. Johnstone, Jr., head of the department, will be moderator for panel discussions on nematodes and their problems. Some of the other subjects in the short course will be "A Spray Program for Nursery Crops in Georgia"; "Suggestions for Wrapping and Protecting Bare-root Nursery Stock," and "Principal Disease Problems in the Nursery."

Hubert Owens, head of landscape architecture, University of Georgia, will talk on plant materials for landscaping.

An informal banquet will be held Monday evening, followed by square dancing. Dr. James C. Kinard, Newberry, S. C., former president of Newberry College, will be the main speaker at the banquet.

The complete program will be published in the next issue.

### NEW YORK SUMMER PLANS

The summer meeting of the New York State Nurserymen's Association will be held July 7 and 8 at Hawthorne, N. Y., according to Sidney E. Bennett, Valhalla, secretary-treasurer of the association. Headquarters will be the Hawthorne Circle Motor Inn, Hawthorne, and meetings and demonstrations will be held at several nurseries in the vicinity.

July 7 there will be registration and a meeting at the Pound Ridge Nursery, Pound Ridge, where a demonstration of nursery tools will follow a barbecue luncheon. The directors' meeting will be held at the Top Hat restaurant, North White Plains, that evening. July 8 there will be a meeting at the Detmar Nurseries, Tarrytown, with luncheon there. Rosedale Nurseries, Inc., Hawthorne, will be host at an afternoon beefsteak dinner.

### JOINT CONVENTION

The 1958 conventions of the Plains Nurserymen's Association and the New Mexico Association of Nurserymen will be held jointly June 22 to 24, at the Cortez hotel, El Paso, Tex. Region VI unit of the Texas Association of Nurserymen and region 27 of the American Association of Nurserymen will conduct business meetings in conjunction with the convention.

### OHIO PLANS

The Ohio Association of Nurserymen will hold its summer meeting August 12 to 14 at Sandusky, O., and the Lake Erie islands. The Star Dust motel will be headquarters for the

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meeting, according to George F. Gens, George F. Gens & Sons, Norwalk, O., secretary of the association.

### NEW JERSEY MEETING

The 1958 summer meeting of the New Jersey Association of Nurserymen will be held July 30 at Rutgers University, New Brunswick, N. J., according to an announcement by William E. Snyder, of the Rutgers college of agriculture, secretary of the association.

### STUDY NUCLEAR ENERGY

A \$5,000 grant for the use of nuclear energy in studies of plant nutrition has been awarded to a scientist at the Storrs agricultural experiment station of the University of Connecticut by the United States atomic energy commission.

The studies deal with the fundamentals of nutrient ion behavior in plants. Dr. Fred H. Emmert, associate professor in plant nutrition, is investigating the forces which regulate uptake and accumulation of nutritional elements in plant tissue.

Use of radioactive isotopes will aid in improving plant nutrition. Learning how ions of one element used by a plant as a nutrient react on the plant's other food elements will help scientists improve plant nutrition, Dr. Emmert believes.

Scientists have found that a build-up of one element through an unsound fertilizer program can reduce the effectiveness of another element needed by the plant.

Excessive fertilizing could be as bad as too little. Potassium and nitrogen, for instance, depress one another when they enter the leaf of the plant. In other words, says Dr. Emmert, an excess of one element may reduce the plant content of the other to the deficiency level, even though adequate supplies of the low element are ready for use in the soil.

Dr. Emmert is feeding trees and plants radioactive forms of calcium, phosphorus, sulphur and potassium. Using these "hot" materials, researchers can tell how the elements are concentrated in the plant and can also learn something about their movement through the plant.

HOFFMAN'S NURSERY, Mundelein, Ill., has added a cut flower department.

STARTING the Downington Nurseries, St. Joseph lane, Downington, Pa., is John A. Petrella, who plans wholesale, retail, garden shop and landscape contracting operations for the enterprise.





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# THIS BUSINESS OF OURS

*Reflections on the Problems of Nurserymen*

*By E. Sam Hemming*

## SEX IN TREES, SHRUBS Part III

The smoke tree, or smokebush, is a plant that is confusing to some in the matter of sex. This plant, once known as *Rhus cotinus*, now more properly called *Cotinus coggygria*, seems to confuse even nurserymen, for I have had requests for plants that are "female." Actually, the flowers are polygamous, and it is the sterile flowers that produce the long, plumy hairs that make the "smoke." It is my observation that the "smoke," which is the attractive feature, is generously produced, while seeds are quite sparse.

Several of the true *rhus* are interesting to nurserymen, and while the flowers may be either dioecious or polygamous, it is their foliage and their habit of growth that make them interesting, rather than their flowers.

That the flowers of holly are dioecious is well known to plantsmen and the average gardener; so the subject needs no elaboration. There are several angles, though, to the pollination of American holly. In my section, this plant grows profusely in the woods; so we never find it necessary to grow and sell male plants. Bees will carry the pollen at least a mile or two.

### Sex in Holly

The sex of a holly in bud is easy to determine, as the pistillate flowers are borne singly and the others are in clusters. Botanists have long sought a way to identify the sex of a plant from its other characteristics, but in vain. However, I have noticed an intangible difference in the distant silhouette of a mature or old holly tree. A male will generally have a broad or open head, while the female will be either round or pyramidal, but I do not know if there is any scientific foundation for this. While sex is important in propagating most hollies, it is of minor importance only in raising *I. crenata* and *I. glabra*. Since hollies hybridize readily, interesting results can be had from sowing seeds. When holly is raised from seeds, the ration of male to female may be 50-50, but it can be 80-20 just as easily.

The flowers of *euonymus* are usually perfect; so they do not represent a problem, but a close rela-

tive, the bittersweet, *Celastrus scandens*, does. The latter is dioecious or, rarely, polygamous. Those we grow in the nursery seem to be invariably dioecious. If the plants are grown from seeds one cannot tell what sex they are until they bloom and fruit. If the female is sold, pollination is unsure, and the plant is hardly popular enough to propagate asexually.

### Family Characteristics

The flowers of the tea family—*thea*, *camellia*, *gordonia* and *stewartia*—are perfect, as are the flowers of *hypericum*, *tamarix*, *daphne*, *elaagnus*, *lagerstroemia* and *punica*.

The flowers of the rare dove tree (*davidia*) are peculiar. They are andromonoecious, having numerous staminate flowers and one perfect

flower. They have no sepals or petals, but the perfect flower has two large showy bracts, which are the ornamental feature.

The dogwood family is chiefly represented in our nurseries by two dissimilar genera—*aucuba*, a commonly grown broad-leaved evergreen in the south, and the dogwood. The flowers of *aucuba* are dioecious, but since the trees are grown for the foliage, the fact is unimportant. The flowers of dogwood are perfect.

The flowers of the *ericaceae*, or heath family, are perfect, and the great numbers of genera, species and varieties seem to bear out my remark that where pollination and fertilization are uncomplicated, hybridization is easy and frequent. While the manuals make no remarks about *vaccinium*, which includes the parents of the commercial blueberry, there are pollination difficulties among blueberry varieties; several varieties should be planted to insure good crops.

Sex is important in growing persimmons, particularly the Oriental ones, which should be grafted from female plants. I have a lone tree

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2-yr., S., 9 to 12 ins.. \$ 6.50 \$50.00  
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1-yr., S., budding size. 6.00 50.00  
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This outstanding issue—only **special** issue published by American Nurseryman—is planned as a tribute to the American Association of Nurserymen's annual convention, being held this year at Dallas, Tex., July 19 to 24. Leading suppliers to the trade have found it beneficial to be represented by a large and forceful advertisement in this special issue, for it is read closely and retained for year-round reference by 10,000 nurserymen when making their purchases. Because it does contain advertising for practically every important source of supply, this issue serves the trade as virtually a "buyers' guide."

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- It brings readers advertising for every type of stock, equipment and supplies they will need during the months ahead—all in one issue for easy reference—and notifies them of representatives who will be available at the convention from various firms.

*Want to invite convention-goers to stop off at your place of business on the way to the convention? Your invitation should appear in the JULY 1 ISSUE (closes June 6) so readers can include it in their plans when drawing up their convention itinerary. Schedule this special ad now!*

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100,000 or more		4.00	4.75	PER 1000
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on my lawn, and as each year it bears a crop, I assume the common persimmon growing in the nearby woods is pollinating it. Botanists say the blooms are sometimes polygamous, but I have not noticed any staminate flowers.

## Olive Family Nature

The flowers of the olive family are chiefly perfect and the group includes such important plants to nurserymen as forsythia, syringa, ligustrum and fraxinus. There are two exceptions, one of which, chionanthus, or white fringe, is interesting to the trade. It is dioecious or, as the botanists say, functionally dioecious, meaning that the staminate flower may have a rudimentary pistil. The two sexes are about equally attractive, for the male flowers have slightly larger petals while the female bears fruit in addition to the smaller flowers. We have grown this plant, but usually from seeds.

The last family of plants important to nurserymen includes viburnum, abelia, kolkwitzia and lonicera, all of which have perfect flowers.

Since the science of plant breeding, especially in ornamentals, is still in its infancy, the many idiosyncracies of sex in plants will undoubtedly become an important study of the future.

## TAX DECISION RENDERED

Reported in the April 15 News Letter of the American Association of Nurserymen is the decision rendered April 5 by the Treasury Department permitting nurserymen to use a cash method of reporting income tax. This decision, No. 6291, can be seen as a victory for the A. A. N., which has struggled for such an objective for the past four years, in conferences and by means of expensive legal briefs, statements and arguments.

Under the accrual system that the Treasury Department sought to establish for the case, nurserymen would have been forced to capitalize the cost of plants purchased for growing on to salable size, the News Letter points out. This would mean that the cost of liners, for instance, could not be deducted from gross income as a business expense in the year before the liners were sold, and the same held for the cost of understocks for budding or grafting. The cost would have to be carried on the books until the year of sale, perhaps two or several years in the future.

The recent decision, as given in the A. A. N report, reads:

"Paragraph 1.162-12 Expenses of farmers:

"A farmer who operates a farm for

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	Each	Each
	Per 100	Per 1000
<i>Crenata</i> , selected upright		
R. C., 8 ins. ....	\$0.11	\$0.10
<i>Crenata convexa</i> (bullata) (Convex-leaved Holly)		
R. C., 8 ins. ....	.11	.10
R. C., 6 ins. ....	.09	.08
<i>Crenata helleri</i> , dwarf spreading		
R. C., 2 to 3 ins. ....	.10	.10
<i>Crenata latifolia</i> (Big-leaved Holly), tall		
R. C., 8 ins. ....	.11	.10
<i>Crenata microphylla</i> (Little-leaved Holly)		
R. C., 6 ins. ....	.09	.08
<i>Crenata rotundifolia</i> (Round-leaved Holly), compact		
R. C., 8 ins. ....	.11	.10

JUNIPER		
	Each	Each
	Per 100	Per 1000
<i>Chinensis pfitzeriana</i> Armstrong Compact spreader		
R. C., 5 to 7 ins. ....	.12½	.11
<i>Chinensis pfitzeriana glauca</i> (Blue Pfitzer Juniper)		
R. C., 5 to 7 ins. ....	.12½	.11
<i>Horizontalis plumosa</i> (Andorra Juniper), low spreader		
R. C., 5 to 7 ins. ....	.12½	.11

TAXUS (Yew)		
	Each	Each
	Per 100	Per 1000
<i>Baccata repandens</i> (Spreading English Yew)		
R. C., 6 ins. ....	.16	.15
<i>Cuspidata</i> (Spreading English Yew)		
R. C., 8 ins. ....	.11	.10
R. C., 10 ins. ....	.13	.12
<i>Cuspidata capitata</i> (Upright Japanese Yew)		
R. C., 6 ins., tips ....	.12	.11
R. C., 8 ins., tips ....	.14	.13
R. C., 10 ins., tips ....	.16	.15
R. C., 12 ins., tips ....	.18	.17
<i>Cuspidata densiformis</i> Dense compact spreader		
R. C., 4 to 6 ins. ....	.15	.15

TAXUS—Continued

	Each	Each
	Per 100	Per 1000
<i>Cuspidata intermedia</i> Compact spreader		
R. C., 6 ins. ....	\$0.10	\$0.09
R. C., 10 ins. ....	.14	.13
R. C., 6 to 8 ins., 1-yr. .	.17½	.16
<i>Cuspidata Vermeulen</i> (Vermeulen Yew)		
R. C., 6 ins. ....	.11	.10
R. C., 8 ins. ....	.13	.12
R. C., 4 to 8 ins., 1-yr. .	.15	.14
<i>Media</i> , compact globe		
R. C., 6 ins. ....	.11	.10
R. C., 8 ins. ....	.13	.12
<i>Media andersoni</i> , hardy spreader		
R. C., 6 ins. ....	.13	.12
<i>Media browni</i> (Brown's Yew)		
R. C., 8 ins. ....	.13	.12
<i>Media hatfieldi</i> , spreading type		
R. C., 4 to 10 ins., 1-yr. .	.17½	.16
<i>Media hatfieldi</i> , compact upright type		
R. C., 6 ins. ....	.11	.10
R. C., 8 ins. ....	.12	.11
R. C., 10 ins. ....	.14	.13
R. C., 4 to 8 ins., 1-yr. .	.15	.14
<i>Media kelleyi</i> (Berrybush Yew)		
R. C., 6 ins. ....	.11	.10
R. C., 8 ins. ....	.13	.12
<i>Media grandifolia</i> (Big-leaved Yew), vertical		
R. C., 6 ins. ....	.14	.13
<i>Media pyramidalis</i> (Pyramid Yew), vertical		
R. C., 6 ins. ....	.14	.13
<i>Media robusta</i> (Obelisk Yew), vertical		
R. C., 6 ins. ....	.14	.13

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VANDERBROOK  
NURSERIES,  
INC.

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

profit is entitled to deduct from gross income as necessary expenses, all amounts actually expended in the carrying on of the business of farming . . . If a farmer does not compute income upon the crop method, the cost of seeds and young plants which are produced for further development and cultivation prior to sale in later years may be deducted as an expense for the year of purchase, provided the farmer follows a consistent practice of deducting such costs as an expense from year to year."

With this decision, the A. A. N. report states, the internal revenue service has dropped efforts in some cases to force nurserymen to change from their usual cash method of reporting income tax to an accrual method, which would require annual inventories and an untold amount of extra records and bookkeeping. Nurserymen still involved in arguments on the point with regional internal revenue investigators should call their attention to Treasury decision 6291.

Nurserymen do not, in general, use the crop method in determining gross income, it is stated. In the crop-cost method of accounting, production costs of each crop are initially charged to deferred-crop-costs and are written off as the cost of operations only as such crop is sold.

## DUTCH BULB FILM

A new 16-mm. color film, "The Miracle of the Bulb," will be released in May for free United States distribution to garden clubs, interested garden groups and television programs.

The 13-minute film was produced over a 3-year period for the Associated Bulb Growers of Holland by John Nash Ott, well known in both horticultural and film circles for his work in time-lapse photography. The new movie makes extensive use of time-lapse to reveal the life cycle of the Dutch spring bulb flowers: Crocuses, daffodils, hyacinths and tulips. The miracle of growth potential in a bulb is visually documented from the moment of planting through its growth under the ground and above the surface to the full blooming of the flowers.

The original orchestral score is by Gene Forrell and is closely integrated with the rhythmic movements of growth revealed by the camera to permit the flowers to tell their own story with a minimum of narration.

Bookings will be handled by Films of the Nations, 62 West 45th street, New York 36, N. Y., and the firm's regional distributors.



# Sell the **NEW FERTILEZE** LINE

## FOR FAST TURNOVER AND REPEAT SALES

America's only Complete Line of Soluble Plant Foods and Applicators

### 3 OUTSTANDING PLANT FOOD APPLICATORS

### FERTILEZE Soluble PLANT FOOD

ACCLAIMED  
by 1000's as  
the world's  
most useful  
garden tool!

#### FLOW MIXER



Your customers will appreciate how this life-time tool thoroughly mixes plant food, hydrated lime, and other materials—they will marvel at its sheer functional beauty—they will be amazed at the results they get—but most of all they will appreciate how it takes the work out of fertilizing and puts the fun in gardening.

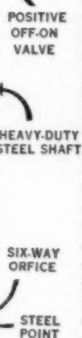
Operates on any water pressure—any distance—no moving parts—and is unconditionally guaranteed. Don't miss the boat—stock the Flow Mixer.

For Results—  
Get to the Roots—

#### ROOT FEEDER

Professional quality but priced for any home gardener. Has heavy-duty  $\frac{1}{2}$ " (O.D.) steel shaft,  $2\frac{1}{2}$  ft. long, machined aluminum handle—sharp, easy-to-insert tooled steel point. Quick cut-off stainless steel valve. Six-way spray won't clog.

Your customers will use the root feeder alone to irrigate—with the Flow Mixer to apply plant foods or pesticides deep down—when they are needed—where they are needed. Take one out of stock and use it yourself to keep that favorite tree or shrub in perfect health this year.



#### "Jet-Action" HAND SPRAY

Feeds as  
you water



Meets the need for a good simple-to-operate hand sprayer. Applies plant food and other materials quickly, easily, without mess and waste. Not plastic—not pot metal but a machined aluminum head that won't rust. 3-speed brass control valve for uniform application. To operate, your customer just fills the pint-jar glass container, attaches unit to hose, turns on water, and sprays life-giving plant food. For foliar or regular feeding of anything that grows. Complete instructions right on the container. Packaged in attractive multi-colored self-displaying box.



18-POUND  
ECONOMY DRUM



12-OUNCE  
POLYETHYLENE  
BAG



1-POUND  
CAN

#### Package Sizes:

12-oz. Poly Bag  
1-lb. cans  
'Handy Dozen'—  
twelve 12-oz. bags  
18-lb. "Economy" Drum  
36-lb. "Suburban Drum"  
60-lb. "Estate" Drum

A small space—  
Big Volume Item

More than just the basic plant food—also contains 14 other elements in a balanced formula that leading soil research chemists say is necessary for proper plant growth and health.

Your customer doesn't wait, worry, or guess when you recommend Fertilize—It's quick acting, immediately soluble, immediately available to the plant. You can see the difference often within 48 hours—your customers get top results—they buy—and buy again.

Fertilize can be applied in many ways—by dipping, spraying, sprinkling, or with one of the Fertilize precision-engineered applicators shown at the left.

Small sizes are packaged in multi-colored self-selling packages—bulk sizes in economy drums.

Fertilize is not a promotional growth stimulant—not a wonder drug—it is a pure, concentrated balanced plant food with all the essential elements—just what Mother Nature intended to make plants grow—fast!

### OFFER A "PACKAGE DEAL" FOR HIGHER UNIT SALES BIGGER PROFITS

A new, more profitable way to sell Plant Food and Applicators



#### SUPER GARDENER KIT

Contains all your customer needs for correct feeding of everything that grows. Includes: 1—automatic Flow Mixer, 1—Root Feeder, 10 lbs. of hydrated lime, 12-12 oz. bags of Fertilize, 1—soil test outfit and instructive Plant Feeding Guide. Sell the Super Gardener—give your customers a savings—and make more money yourself.



#### "TRY-IT" KIT

Get them started on the "Try-It" Kit now—step them up to the Super Gardener Kit later. "Try-It" contains six 12-oz. "Poly" bags of Fertilize, one "Jet-Action" Hand Sprayer and the instructive Plant Feeding Guide. Packaged in multi-colored self-displaying carton.

### FERTILEZE

Division of Tennessee Fabricating Company

1613 GRIMES STREET

MEMPHIS, TENNESSEE

Attention...

#### LAWN SERVICE DEPARTMENTS

Use Fertilize for top results! Put the Flow Mixer and Root Feeder to work and save hours of labor. Start by writing for special "Professional User Information" and bulk plant food price list.

#### NURSERYMEN

You'll find Fertilize the highest quality soluble plant food—perfect for feeding all nursery stock and trees—by any method of application, and especially with irrigation water.

Fertilize Division of Tennessee Fabricating Company  
1613 Grimes St.  
Memphis 6, Tenn.

Rush us complete information and wholesale prices on the New Fertilize line.

Name \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

## BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage. Over 200,000 for spring delivery. All sizes from 8 ins. to 3 ft. All B&B.

### AMOENA

8 ins. ....	\$0.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00

### CORAL BELLS

6 ins. ....	.50
8 ins. ....	.75
10 ins. ....	1.00

### HINODEGIRI

Our Hinos are very dark red.

6 ins. ....	.50
8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00
18 ins. ....	2.50
20 ins. ....	3.50
24 ins. ....	5.00
30 ins. ....	6.00
36 ins. ....	7.50

### ORANGE BEAUTY

KURUME	
6 ins. ....	\$0.50
8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25

### KAEMPFERI

Hardest of all azaleas; well-budded, heavy.

### OTHELLO, SALMON

BEAUTY, FEDORA and CARMEN are all the same price.

8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00
18 ins. ....	2.50
20 ins. ....	3.50
24 ins. ....	5.00
30 ins. ....	6.00
36 ins. ....	7.50

### LEDIFOLIA ALBA

6 ins. ....	\$0.50
8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00
18 ins. ....	2.50
20 ins. ....	3.50
24 ins. ....	5.00

### MAXWELL

8 ins. ....	.75
10 ins. ....	1.00

### HINO-CRIMSON

6 ins. ....	.50
8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25
15 ins. ....	2.00

### SNOW

6 ins. ....	.50
8 ins. ....	.75
10 ins. ....	1.00
12 ins. ....	1.25

We also have limited quantities of the following varieties: Louise Gable, Favorita, Beethoven, Johann Strauss, Rose Bud, Rose Greeley, Addy Wery and Polaris. Rooted cuttings of all varieties, \$50.00 per 100 except—Rose Bud, Rose Greeley, Addy Wery, Louise Gable, \$75.00 per 1000.

Buy northern-grown hardy azaleas. Our cuttings are made from plants that have been outdoors, unprotected for the past 15 years. Try them once and see the difference.

Write for Our Catalog for Many Other Items Which We Grow

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Jericho Turnpike, MIDDLE ISLAND, L. I., N. Y.

Phone: Yaphank 4-3444

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Central Pennsylvania Grown  
2-yr.-old, field-grown plants.  
Hybrid Teas—Floribundas—Climbers

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Landscape Material  
Twice transplanted, regularly sheared.  
Young saleable evergreens for cash-and-carry trade of garden shops, roadside markets and nurseries.

Write for wholesale price list.

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Mountain View, New Jersey

## HOLLIES

Named Opac—Hardy to 20° Below  
3-yr., 1-gal. nursery cans  
5-yr., 2-gal. nursery cans  
A few B&B to 6 ft.

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Nursery pickup—no shipping.

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Rhododendron • Kalmia • Azalea

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## For Quality Stock— RICKERT NURSERIES

Successor to Moon's

Established 1767

MORRISVILLE, PA.

## NORTHERN-COLLECTED

Hemlocks, Ferns, Wild Flowers  
Trees, Shrubs

ISAAC LANGLEY WILLIAMS  
EXETER, N. H.

## AZALEAS AND HEDGE PLANTS

Splendid stock.

Write for Price List.

DIAMOND STATE NURSERIES  
MILFORD, DEL.

## COVER ILLUSTRATION

### Amelanchier LeRoyensis

Few native plants contribute more to the spring landscape than the many species of amelanchier native to North America. Profusely flowered, both the shrub and tree species are conspicuous heralds of summer, and many are cultivated for their exceptional charm. Some of the species are hardy as far north as zone 2, and most can be grown successfully in zones 3 to 5.

Often called serviceberry and Juneberry, as well as shadbush, in New England, where its bloom supposedly marks the beginning of the annual shad run, amelanchier's reddish-purple to purplish-black berries are edible, and the larger-fruited A.



Flowers of Amelanchier LeRoyensis.

stolonifera is sometimes cultivated for the jelly-making qualities of its berries. However, the best flowering species generally are used because of their early, abundant blooming. Especially magnificent is the small tree, A. laevis, when mantled with its purple young leaves and later May dress of myriad flowers borne in gracefully drooping racemes.

On one of his many field trips, Barney Slavin, retired superintendent of the park department at Rochester, N. Y., found near LeRoy, N. Y., an amelanchier which he holds to be a newly discovered species, and named Amelanchier LeRoyensis. This plant resembles the well-known A. stolonifera, being about the same height as the latter and growing in clumps of upright, stoloniferous plants. However, the flowers on Mr. Slavin's find are



# Who said it was too late? . . .

You can plant Willis potted liners ANY time (if the ground isn't frozen!). Still ample time to plant in the field or in containers. Established plants with active roots take off and grow without setback.

**Plant now and gain a year!**

**With Willis Potted Liners You Can:**

- Plant later
- Get better stands
- Have more growth

## POTTED LINERS LINING-OUT STOCK

### SHRUBS

	Each Per 100	Each Per 1000
Almond (See Prunus)		
Berberis (Barberry)		
Mentorensis, 2 1/4-in. pots	\$.25	\$0.20
Buddleia (Butterfly Bush)		
Alternifolia, 2-in. pots	.18	.16
Callicarpa (Beauty Bush)		
Dichotoma, 2-in. pots	.16	.16
Chaenomeles (Flowering Quince)		
Lagenaria Pink Lady,		
2 1/4-in. pots	.18	.16
Colutea (Bladder Senna)		
Arborescens, 2 1/4-in. pots	.18	.16
Cornus (Dogwood)		
Paniculata, 2 1/4-in. pots	.18	.16
Cotoneaster		
Divaricata, 2-in. pots	.18	.16
Cydonia (See Chaenomeles)		
Desmodium		
Penduliflorum, 2 1/4-in. pots	.20	.18
Euonymus		
Alatus compactus,		
2-in. pots	.20	.16
Europaeus, 2-in. pots	.18	.16
Forsythia (Golden Bell)		
Arnold's Giant,		
2 1/4-in. pots	.20	.18
Intermedia spectabilis,		
2 1/4-in. pots	.18	.16
Lynwood Gold, 2-in. pots	.20	.18
Spring Glory, 2 1/4-in. pots	.20	.18
Viridissima bronxensis,		
dwarf, 2-in. pots	.20	.18
Hypericum (St. John's-wort)		
Hidcote, 2-in. pots	.20	.18
Kalmianum, 2-in. pots	.20	.18
Kolkwitzia (Beauty Bush)		
Amabilis, 2 1/4-in. pots	.22	.20
Lonicera (Bush Honeysuckle)		
Clavey's Dwarf,		
2 1/4-in. pots	.22	.20
Fragrantissima, 2-in. pots	.18	.16
Korolkowi floribunda,		
2-in. pots	.18	.16
Morrowi, 2-in. pots	.18	.16
Tatarica Wheeling,		
2-in. pots	.18	.16
Zabelli, 2-in. pots	.18	.16
Philadelphus (Mock Orange)		
Avalanche, 2 1/4-in. pots	.18	.16
Belle Etoile, 2 1/4-in. pots	.18	.16
Coronarius, 2 1/4-in. pots	.18	.16
Enchantment, 2 1/4-in. pots	.18	.16
Mont Blanc, 2 1/4-in. pots	.18	.16
Virginalis, 2 1/4-in. pots	.18	.16
Physocarpus (Ninebark)		
Opulifolius nanus, dwarf		
2-in. pots	.18	.16

	Each Per 100	Each Per 1000
Prunus		
Glandulosa alba (White- Flowering Almond),		
2-in. pots	\$.18	\$0.16
Glandulosa rosea (Pink- Flowering Almond),		
2-in. pots	.18	.16
Jacquemontii (Jacquemont Cherry), 2 1/4-in. pots	.18	.16
Ribes		
Odoratum (Flowering Currant), 2 1/4-in. pots	.18	.16
Salix (Willow)		
Discolor, 2 1/4-in. pots	.18	.16
Spiraea		
Anthony Waterer,		
2-in. pots	.19	.17
Arguta, 2-in. pots	.19	.17
Froebeli, 2 1/4-in. pots	.18	.16
Japonica coccinea,		
2-in. pots	.20	.18
Mongolica, 2-in. pots	.18	.16
Thunbergii, 2-in. pots	.18	.16
Syringa (Lilac)		
Rothomagensis,		
2 1/4-in. pots	.18	.16
Rothomagensis, cut-leaved, new, 2-in. pots	.20	.18
Rothomagensis, pink,		
2 1/4-in. pots	.20	.18
Viburnum		
Opulus, 2 1/4-in. pots	.18	.16
Weigela		
Rosen, 2 1/4-in. pots	.18	.16

### EVERGREENS

	Each Per 100	Each Per 1000
Juniperus (Juniper)		
Communis depressa plumosa,		
2-in. pots	.22	.20
Sabina, 2 1/4-in. pots	.22	.20
Sabina vomeriana, 2-yr., heavy tops, 2 1/4-in. pots	.27	.25
Taxus (Yew)		
Cuspidata (Japanese Yew), 2 1/4-in. pots	.22	.20

### VINES

	Each Per 100	Each Per 1000
Celastrus (Bittersweet)		
Scandens, fruiting strain, 2-in. pots	\$.18	\$0.16
Lonicera (Honeysuckle)		
Goldflame, 2 1/4-in. pots	.20	.18
Japonica halliana,		
2-in. pots	.14	.12
Redgold (Tetmanniana),		
2 1/4-in. pots	.20	.18
Sempervirens Dreer's,		
2-in. pots	.18	.16
Sempervirens, yellow,		
2-in. pots	.18	.16
Yellownet, 2-in. pots	.18	.16
Polygonum		
Keynotria, 2 1/4-in. pots	.20	.18

### BROAD-LEAVED EVERGREENS

	Each Per 100	Each Per 1000
Cotoneaster		
Divaricata, 2-in. pots	.20	.18
Euonymus		
Fortunei, 2-in. pots	.20	.18
Fortunei vegetus,		
2 1/4-in. pots	.25	.20
Patens du Pont,		
2-in. pots	.30	.25
Patens, large-leaved,		
2-in. pots	.18	.16
Pyracantha (Firethorn)		
Coccinea, Vincent's Hardy		
Strain, 3-in. pots	.25	.22
2-in. pots	.20	.18
Coccinea pauciflora		
3-in. pots	.25	.22
2-in. pots	.20	.18

### The best containers are PLANTAINERS

No cutting necessary—  
plants tap out of this tapered  
container — painted an  
attractive green.

Write for prices. Shipped  
from warehouse in Ottawa.



## THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"  
OTTAWA, KANSAS





## PRINCETON NURSERIES

A very complete line of quality ornamental stock. In addition to our regular assortment we are now producing many of the smaller and lower-growing trees, including:

**Crataegus cordata** (Washington Thorn). Grown with single, straight trunks and shapely heads, available in 4 to 5 and 5 to 6 ft.

**Crataegus mollis** (Downy Hawthorn). Single, straight trunks and excellent heads in 5 to 6, 6 to 7 and 7 to 8 ft.

**Crataegus oxycantha pauli** (Paul's Scarlet Thorn). Straight trunks, full tops, 4 to 5, 5 to 6 and 6 to 7 ft.

Many other smaller-growing varieties are available.

*Come to see us.  
Write for catalog.  
Send your Want List.*

### PRINCETON NURSERIES

Princeton, N. J.  
Phone: Walnut 4-1776

# BIG

We have one of the largest available supplies of big specimen material, including:

#### AZALEA

- ILEX BUXIFOLIA
- ILEX OPACA
- TAXUS FASTIGIATA
- TAXUS REPANDENS
- TAXUS CUSPIDATA
- HYBRID RHODODENDRON
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For 40 years  
one of America's  
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Own Root  
In Quality, Quantity and  
Variety

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P. O. Box 141 RED BANK, N. J.

## EVERGREEN SEEDLINGS

Growers of Quality Evergreen  
Seedlings and Transplants  
Free price list and planting guide.  
Visitors Welcome

**FLICKINGERS' NURSERY**  
Box 12 Sagamore, Pa.

much larger than those of any other species previously described, and the plant blooms considerably later. The fruit is large and of pleasing flavor. The diameter of the individual flowers can be compared with the leaf size, which is about two inches in length.

This upright, profuse-flowering shrub, growing to about five feet, could fill many needs in landscape work when a stoloniferous type of small woody plant is desired, especially as holding cover for loose slopes, where its usefulness is augmented by the early season beauty of its blooms.

The photograph from which the cover illustration was made was taken by Gavaghan & Dobson, Rochester, N. Y. J. G.

## NEW GOLDFARB UNIT

The Goldfarb Corp., with headquarters at New York, N. Y., announces that it recently contracted for the construction of a large new unit in its chain of Arcadian Gardens Supermarkets, to be located in the Menlo Park shopping center, Menlo Park, N. J. Planned for completion early in 1959, the new garden center will include a 10,000 square foot modern structure, 28 feet high, that will serve as the main salesroom for garden supplies and equipment. The air-conditioned building will have two entire walls of glass to provide maximum light.

A greenhouse with an area of 6,000 square feet will also be built for the display of foliage and blooming potted plants, while a 15,000 square foot lath-shaded area will display the shrubs, evergreens, trees and nursery stock grown by Arcadian Gardens. In addition, a landscaped 5,000 square foot patio will adjoin the salesroom, greenhouse and lath area. Garden furniture and accessories for outdoor living will be featured in this patio. Over 2,500 square feet of refrigerated storage space will be available in a basement workroom.

## CHRISTMAS TREE GROWERS

The first meeting of the North-eastern Ohio Christmas Tree Growers Association was held March 28, at the Village Hall, Fowlers Mills, O. Gordon Anderson, Creawood Forests, was acting president. Twenty-eight persons heard the lecture, "Christmas Tree Insects and Insect Control," given by Dave Dugan, Dugan's Nursery, Perry, O.

The next scheduled activity will be a shearing demonstration at the Denton Nursery, near Conneaut, O., June 14.

## FOR SPRING SHIPMENT

- 1200 **Acer palmatum atropurpureum**, seed-grown, 3-yr., T.
- 900 **Acer palmatum atropurpureum**, 1-yr., grafts
- 8000 **Barberry, thunbergi atropurpurea**, 2-yr., S., 6 to 9 ins.
- 2000 **Chamaecyparis plumosa aurea**, 2-yr., T.
- 3000 **Cornus florida**, 1-yr., S., heavy.
- 1000 **Cornus florida Prosser**, grafts, from pots
- 1000 **Ilex crenata latifolia**, 2-yr., T.
- 5000 **Taxus cuspidata capitata**, 2-yr., T.
- 2500 **Tsuga caroliniana**, 2-yr., T.

## VERKADE'S NURSERIES

NEW LONDON, CONN.

*"A friendly, efficient sales service"*

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Maxwell, Bowden & Rice, Inc.  
A. N. Pierson, Inc.  
Sunny Border, Inc.  
Verkade's Nurseries

*Refer to our list in the  
March 1 issue on pages 36 and 37.*

## Trees, Evergreens, Shrubs Fruit Trees

*Write for Our Wholesale Trade List*  
**W. - T. Smith Corporation**  
Telephone 2689 GENEVA, N. Y.

## QUALITY LINERS

In Wide Assortment  
**NURSERY SALES, INC.**  
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Gl. 4-6848

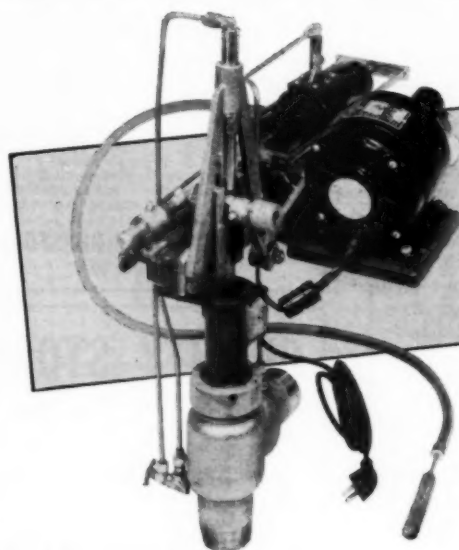
## QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California  
Privet, Green Barberry, Red Barberry  
(fine strain).  
Seedlings and transplants.  
**DANEGER'S HI-WAY NURSERY, INC.**  
P. O. Box 336 MILFORD, DEL.

## BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots



Fertilize As You Irrigate ...  
**FERT-O-JECT**  
 Automatic LIQUID FERTILIZER INJECTOR

PRICE: **\$435.00**

**COMBINE THESE TWO IMPORTANT JOBS  
 INTO ONE EFFICIENT PROCESS!**

## **IRRIGATION and FERTILIZATION**

You can now afford to fertilize more frequently in smaller, safer quantities by feeding with a Fert-O-Ject through your existing water lines. The Fert-O-Ject injects at a ratio of 200:1, regardless of the amount of water being used, and provides its own power for injection with a 1/12 h.p. motor, therefore no pressure drop. It operates at water pressures up to 140 lbs. pressure and with systems delivering up to 120 g.p.m. If more water is required, a manifold of Fert-O-Jects can be installed to handle any amount of water.

The Fert-O-Ject is excellent when used in conjunction with growing container material.

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Write for complete details.

Distributor—EMS BACH, INC., 4511 West 27th Ave., Denver, Colorado

## CHRISTMAS TREE PLANTATION STOCK

### PINE—SPRUCE—FIR Seedlings and Transplants

	Per 100	Per 1000
<b>Norway Spruce (Picea excelsa)</b>		
(2-0), 2-yr., S.,		
2 to 3 ins.....	7.00	\$18.00
3 to 4 ins.....	8.00	22.00
(1-2), 3-yr., T.,		
5 to 10 ins.....	10.00	50.00
(2-2), 4-yr., T.,		
6 to 12 ins.....	12.00	60.00
8 to 14 ins.....	16.00	90.00
<b>Scotch Pine (Pinus sylvestris)</b>		
(2-0), 2-yr., S.,		
2 to 4 ins.....	4.00	18.50
3 to 6 ins.....	5.00	22.00
4 to 8 ins.....	6.00	25.00
(1-2), 4-yr., T.,		
6 to 10 ins.....	10.00	50.00
8 to 14 ins.....	15.00	60.00
<b>Blue Spruce (Picea pungens)</b>		
(Colorado Blue Spruce)		
(2-0), 2-yr., S.,		
2 to 3 ins.....	4.00	20.00
3 to 4 ins.....	6.00	25.00
(2-0), 3-yr., S.,		
3 to 4 ins.....	8.00	35.00
5 to 10 ins.....	10.00	55.00
<b>Austrian Pine (Pinus nigra)</b>		
(2-0), 2-yr., S.,		
2 to 4 ins.....	4.00	20.00
3 to 6 ins.....	6.00	25.00
(2-2), 4-yr., T.,		
5 to 10 ins.....	12.00	70.00
<b>White Spruce (Picea alba)</b>		
Excellent blue-gray color.		
(2-0), 2-yr., S.,		
3 to 6 ins.....	5.00	25.00
(3-0),		
3-yr., S., 4 to 8 ins...	6.00	30.00
3-yr., S., 6 to 12 ins...	8.00	40.00
<b>Concolor Fir (Abies concolor)</b>		
(2-0), 2-yr., S.,		
2 to 3 ins.....	8.00	35.00
3 to 6 ins.....	10.00	50.00
(3-0), 3-yr., S.,		
4 to 8 ins.....	15.00	70.00
<b>Douglas Fir</b>		
(2-0),		
2-yr., S., 2 to 3 ins...	6.00	25.00
3-yr., S., 3 to 5 ins...	8.00	35.00

Discount: Less 5% on quantities of 5000 or more of a kind. Order 100 at 100 rate; 1000 at 1000 rate.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE. All orders may be booked with one-third cash with order and balance C.O.D. All prices are net.

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## HYBRID RHODODENDRON

### PIERIS JAPONICA

#### 1 and 2-yr. transplants

**PIERIS**—1-yr., S., T., 3 to 5 ins.  
Flats of 70 to 75, each \$10.50; 5 and up, \$9.75; 25 and up, \$9.00.  
2-yr., S., T., soil ball. Heavy, 4 to 6 ins., \$25.00 per 100; \$225.00 per 1000.

**RHODODENDRON**—Red Seedlings  
1-yr., S., T., flats of 70 to 75, \$12.50; 5 and up, \$11.50; 25 and up, \$10.50.

2-yr., S., T., soil ball. Heavy, \$30.00 per 100, \$250.00 per 1000.  
(Flats can be safely shipped.)

#### FINER LINERS

**JOHN VERMEULEN & SON, INC.**  
Neshanic Station, N. J.

## OBITUARY

### Don S. Byers

Don S. Byers, of the French Nursery Co., Clyde O., died April 17 at Flower hospital, Toledo, at the age of 63. He had been ill for two months. With his brother, Phil, he had operated the French Nursery since the death 10 years ago of their grandfather, A. B. French, who established the nursery in 1863.

Mr. Byers was a member of the Ohio Nurserymen's Association and the A. A. N. He is survived by his widow and two daughters. A nephew, Fred Mann, and a son-in-law, Russell McClure, will continue the nursery.

### Eugene Howard

Eugene Howard, founder of Howard Montopolis Nursery, Austin, Tex., died April 9. He had been a pioneer Texas nurseryman and was a past president of the Southwest Nurserymen's Association, a member of the A. A. N. and a member of the Texas Association of Nurserymen. He was also a member of Austin lodge 12 and the Ben Hur Shrine of the Masons.

Survivors include his widow; two sons, Ryan Howard, Lampasas, Tex., and Gene Howard, Austin, Tex.; two daughters, Nancy Ellen and Mary Frances Howard, both of Austin; a brother, and a sister.

### Hammond Sadler

Hammond Sadler, Palos Verdes, Calif., nationally known landscape architect, died in a Long Beach hospital in March. He was 77 years old. He went to Palos Verdes Estates in 1919 as a representative of Omstead Bros., New York, to work on the original landscaping of the estates.

Born in London, Mr. Sadler was graduated from Redding University and studied in Paris. He set up offices as a landscape architect at Palos Verdes in 1921 and designed many landscapes through the south San Francisco bay area. He is survived by his daughter, Suzanne Stone; two grandchildren, and two sisters.

### Frank Gross

Frank Gross, 71, nurseryman and building contractor in Penn Township, Pennsylvania, died March 26 in Presbyterian hospital, Penn Township. He had conducted the Gross Gardens Nursery, on Frankstown road. Surviving are the widow,

## CANADIAN HEMLOCK BALSAM FIR

### Northern-Grown

	Per 100	Per 1000
2 to 4 ins., S.....	\$ 2.00	\$ 10.00
3 to 6 ins., S.....	3.00	17.50
6 to 9 ins., S.....	5.00	30.00
9 to 12 ins., S.....	9.00	70.00
12 to 18 ins., S.....	12.50	100.00
18 to 24 ins., S.....	30.00	

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

**WILLIAM CROSBY HORSFORD**  
Charlotte, Vt.

## QUALITY STOCK

### Hemlock

Pfitzer Juniper — Globe Arborvitae  
For inside Japanese Beetle area.

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Visitors Welcome

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Nurseryman  
Broad Brook, Conn.

## LINING-OUT STOCK

### IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

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DEERFIELD, N. J.

## DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.

Write for Wholesale Price List.

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LITTLE SILVER, N. J.

## TAXUS

Upright, 6 to 14 ft.

Also Other Varieties of Taxus.

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BABYLON, L. I., N. Y.

## SHEPARD NURSERIES

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**STEDMAN NURSERIES, INC.**  
NEWFANE, N. Y.



# FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each 100 rate	Each 1000 rate
<b>Abies concolor</b> (Concolor Fir)		
2 to 6 ins., 2-yr., S.....	\$0.10	..
4 to 8 ins., 3-yr., S.....	.15	..
<b>Azalea Ghent pontica</b> , pastel shades		
4 to 6 ins., 3-yr., T.....	.35	\$0.32
6 to 10 ins., 3-yr., T.....	.45	..
<b>Azalea knempferi</b> (Torch Azalea)		
3 to 6 ins., 3-yr., T.....	.35	..
6 to 10 ins., 3-yr., T.....	.45	..
<b>Azalea mollis</b> (Chinese Azalea)		
6 to 8 ins., 2-yr., T.....	.22	.18
8 to 12 ins., 3-yr., T.....	.45	.40
<b>Azalea mucronulatum</b> , lavender shades		
4 to 8 ins., 2-yr., T.....	.35	.32
8 to 10 ins., 3-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.50
<b>Buxus sempervirens welleri</b>		
8 to 10 ins., 3-yr., T.....	.45	..
10 to 12 ins., 4-yr., T.....	.55	..
<b>Chamaecyparis filiformis aurea</b>		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 3-yr., T.....	.45	..
10 to 12 ins., 3-yr., T.....	.55	..
<b>Chamaecyparis lawsoniana allumi</b> (Columnar Blue Cypress)		
10 to 12 ins., 3-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
<b>Chamaecyparis plumosa aurea</b>		
8 to 10 ins., 3-yr., T.....	.40	.35
10 to 15 ins., 3-yr., T.....	.50	.45
<b>Cotoneaster horizontalis</b>		
4 to 8 ins., 3-yr., T.....	.25	..
<b>Euonymus fortunei erectus</b>		
10 to 12 ins., 2-yr., T.....	.28	.25
12 to 18 ins., 3-yr., T.....	.35	.30
<b>Euonymus radicans coloratus</b> ,		
12 to 18 ins., 3-yr., T.....	.35	.30
<b>Euonymus radicans vegetus</b>		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 15 ins., 3-yr., T.....	.45	..
<b>Ilex crenata</b> (Pyramidal)		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 15 ins., 3-yr., T.....	.45	..
<b>Ilex crenata convexa</b> (bullata)		
10 to 12 ins., 2-yr., T.....	.48	.45
12 to 15 ins., 3-yr., T.....	.65	.55
12 to 15 ins., 5-yr., field row spaced .....	1.00	.90
<b>Ilex crenata hetzi</b>		
8 to 10 ins., 2-yr., T.....	.40	.38
10 to 15 ins., 3-yr., T.....	.55	..
<b>Ilex rotundifolia</b> (Round-leaved)		
8 to 10 ins., 2-yr., T.....	.38	.35
10 to 12 ins., 3-yr., T.....	.48	.45
12 to 15 ins., 3-yr., T.....	.70	.55
12 to 15 ins., 5-yr., T..... field row spaced .....	1.00	.90
<b>Juniper. Andorra</b> (Purple Andorra Juniper)		
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.50	.45
<b>Juniperus canadensis aurea</b> (Golden Canadian Juniper)		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 3-yr., T.....	.45	..

## FINISHED NURSERY STOCK

All plants listed below priced in the ground. Purchaser to call for at the nursery. About 10,000 in this block. Will give a block clearance price on large amounts.

	Each 100 rate	Each 1000 rate
<b>Ilex crenata convexa</b> (bullata)		
12 to 18 ins.....	\$1.50	\$1.10
15 to 18 ins.....	2.00	1.60
18 to 24 ins.....	2.50	..
<b>Ilex rotundifolia</b>		
12 to 18 ins.....	1.50	1.10
15 to 24 ins.....	2.00	1.60
<b>Juniperus glauca hetzi</b>		
18 to 24 ins.....	2.00	1.60
24 to 36 ins.....	2.40	1.75
<b>Juniperus pfitzeriana compacta</b> , Nelson's compact variety		
12 to 15 ins.....	1.50	1.10
15 to 18 ins.....	2.00	1.50
<b>Taxus cuspidata</b> (about 125 of these plants)		
4 to 5-ft. spread.....	8.00	..
(10 to 200 at the 100 rate; 200 up at the 1000 rate.)		

	Each 100 rate	Each 1000 rate
<b>Juniperus glauca hetzi</b> (Hetz Juniper)		
8 to 10 ins., 2-yr., T.....	\$0.35	\$0.30
10 to 12 ins., 2-yr., T.....	.40	.35
12 to 15 ins., 3-yr., T.....	.55	.48
<b>Juniperus hibernica fastigiata</b> (Compact Irish Juniper)		
10 to 12 ins., 2-yr., T.....	.38	.33
12 to 15 ins., 3-yr., T.....	.45	.40
<b>Juniperus pfitzeriana, regular</b>		
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
<b>Juniperus pfitzeriana aurea</b> (Golden Pfitzer Juniper)		
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.65	..
<b>Juniperus pfitzeriana compacta</b> , Nelson's compact variety		
6 to 8 ins., 1-yr., T.....	.35	.30
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.65	..
<b>Koeleruteria paniculata</b>		
2-yr., S., field bed.....	.12	.08
6 to 12 ins., 3-yr., T.....	.18	.15
<b>Leucothoe catesbaei</b>		
8 to 10 ins., 2-yr., T.....	.35	.30
10 to 12 ins., 3-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
<b>Liquidambar styraciflua</b>		
2-yr., S., bed run.....	.10	.06
6 to 12 ins., 3-yr., T.....	.15	.12
<b>Mahonia aquifolium</b>		
2 to 5 ins., 3-yr., S.....	.20	.18
4 to 8 ins., 4-yr., S.....	.25	.20
<b>Picea alba</b> (White Spruce)		
3 to 6 ins., 2-yr., S.....	.05	.02½
6 to 12 ins., 3-yr., S.....	.08	.04

	Each 100 rate	Each 1000 rate
<b>Picea excelsa</b> (Norway Spruce)		
6 to 12 ins., 4-yr., T.....	\$0.12	\$0.06
8 to 14 ins., 4-yr., T.....	.16	.09
<b>Picea pungens</b> (Colorado Blue Spruce)		
4 to 6 ins., 4-yr., T.....	.20	.18
6 to 8 ins., 4-yr., T.....	.35	.32
<b>Pieris floribunda</b> (Mountain Andromeda)		
6 to 8 ins., 2-yr., T.....	.35	..
<b>Pieris japonica</b>		
8 to 10 ins., 2-yr., T.....	.35	..
10 to 12 ins., 3-yr., T.....	.65	..
<b>Pinus mugo</b> (Dwarf Mugho Pine)		
3 to 6 ins., 3-yr., T.....	.25	.30
<b>Pinus nigra</b> (Austrian Pine)		
6 to 10 ins., 4-yr., T.....	.12	.07
<b>Pinus sylvestris</b> (Scotch Pine)		
5 to 8 ins., 4-yr., T.....	.10	.05
8 to 14 ins., 4-yr., T.....	.15	.06
<b>Pseudotsuga douglasii</b> (Douglas Fir)		
2 to 3 ins., 2-yr., S.....	.06	.02½
2 to 5 ins., 3-yr., S.....	.08	.03½
<b>Pyraeantha coccinea islandi</b>		
6 to 10 ins., 2-yr., T.....	.32	.30
10 to 15 ins., 3-yr., T.....	.40	.38
<b>Rhododendron carolinianum</b>		
2 to 4 ins., 3-yr., T.....	.35	..
4 to 8 ins., 3-yr., T.....	.45	..
<b>Rhododendron catawbiense</b>		
2 to 4 ins., 3-yr., T.....	.35	..
4 to 8 ins., 3-yr., T.....	.45	..
<b>Rhododendron Hybrid</b> , various colors		
3 to 6 ins., 3-yr., T.....	.45	..
5 to 8 ins., 4-yr., T.....	.55	..
8 to 10 ins., 4-yr., T.....	.85	..
10 to 15 ins., 5-yr., T.....	1.00	..
<b>Taxus capitata</b> (Upright Yew)		
4 to 8 ins., 4-yr., T.....	.40	.35
8 to 10 ins., 4-yr., T.....	.50	.48
<b>Taxus cuspidata</b> (Spreading Yew)		
6 to 8 ins., 2-yr., T.....	.38	.35
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.45
<b>Taxus media hicksii</b> (Hicks' Yew)		
6 to 8 ins., 2-yr., T.....	.35	..
8 to 10 ins., 2-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
<b>Thuja occidentalis douglasii aurea</b> (Geo. Peabody Golden Arborvitae)		
8 to 10 ins., 3-yr., T.....	.45	..
10 to 15 ins., 3-yr., T.....	.55	..
<b>Thuja occidentalis elegantissima lutea</b>		
10 to 12 ins., 2-yr., T.....	.45	.40
12 to 15 ins., 4-yr., T.....	.55	.50
15 to 18 ins., 4-yr., T.....	.65	..
<b>Thuja occidentalis globosa</b>		
8 to 10 ins., 2-yr., T.....	.40	.35
10 to 15 ins., 4-yr., T.....	.65	..
<b>Thuja occidentalis pyramidalis</b>		
10 to 12 ins., 2-yr., T.....	.45	..
12 to 15 ins., 3-yr., T.....	.55	..
15 to 18 ins., 3-yr., T.....	.65	..
<b>Tsuga canadensis</b> (Hemlock)		
8 to 10 ins., 4-yr., T.....	.40	..
10 to 15 ins., 5-yr., T.....	.55	.50
<b>Viburnum opulus nanum</b>		
2-yr., T.....	.30	..

Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.

TERMS: Free packing for cash with order, otherwise ½ deposit with order and balance C.O.D. Packing at cost. All shipments by railway express.

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Elizabeth Zappa Gross, and a brother, Albert Gross, Tampa, Fla.

### Owen J. Mulvey

Owen J. Mulvey, 59, who had operated the Mulvey & Son Nursery at Toledo, O., for the past 13 years, died April 11 in Toledo hospital. He is survived by his widow, Verna; a son, Owen J., Jr.; two sisters, and two brothers.

HARLAN P. KELSEY, Kelsey, Inc., Boxford, Mass., is seriously ill.

## JAPANESE BEETLE NOTICE

The plant pest control division of the United States Department of Agriculture announced April 4 a proposed amendment to Japanese beetle quarantine No. 48, extending the regulated areas. Added to areas formerly named are 12 counties in North Carolina; one county and parts of 12 other counties in Ohio; two counties, three cities and parts of four other counties in Virginia, and six counties and parts of 17

others in West Virginia. Views on the matter were to have been filed with the director of the division within 30 days after publication of the proposal in the federal register April 4.

A. T. ESSEX is starting the Cascade Gardens & Nursery at P. O. Box 4, Stanwood, Wash.

WILLIAM HALLICY is discontinuing operation of the Clifton Nursery, 319 Mount Prospect avenue, Clifton, N. J.

# Tree Preservation Topic At Canadian Conference

By L. C. Keith

Gordon McNair, city arborist of Hamilton, Ont., was re-elected president of the Canadian chapter of the National Shade Tree Conference at the ninth annual meeting, which was held at the Royal Connaught hotel, Hamilton, Ont., April 25 and 26. Other officers elected were as follows: First vice-president, Al Sellers, Cedarville Tree Experts, Toronto; second vice-president, J. S. Hackett, Canadian Shade Tree Service, Ltd., Lachine, Que.; secretary-treasurer, C. G. Dobbin, commission of parks and recreation, York, Toronto, and assistant secretary, J. Brown, Quebec hydroelectric power commission, Montreal.

## Chairmen Named

Committee chairmen named for the following year included the following: Membership, A. C. Taylor, Mount Royal, Que., and James Redman, Royal Botanical Gardens, Hamilton, Ont.; organization, J. A. Kimmel, forestry superintendent, commission of parks and recreation, Toronto, and C. H. T. Lowe, Acme Tree Specialists, Ottawa; publicity, John Weall, Ontario Agricultural College, Guelph, Ont., and Harry Moreland, North York parks department, Willowdale, Ont., and advisory, W. M. Grundy, chief forester, hydroelectric power commission, Toronto, and Rene Richard, technical horticultural adviser, province roads department, St. Lambert, Que.

Gordon McNair was named to the board of governors for two years, and F. R. Peden, Lachine, for one year.

## Business Session

The business meeting was held the first morning. The work of the chapter was discussed and reports were heard. In the absence of the president, Gordon McNair, the second vice-president, Al Sellers, presided.

Primary purposes of the conference were to improve the practice of tree preservation, to stimulate a greater interest in the planting and preservation of shade and ornamental trees and to cooperate in the conservation of trees and in the beautification of the countryside. To this end it was thought that the group should do something constructive in raising the standards of those who

operate as tree experts. A committee, headed by Al Sellers, was appointed to look into the matter of qualifications and to see what other communities had done and whether it would be wiser to tackle the problem from a legal angle or from the aspect of prestige. It was felt that a certified tree expert would be considered better qualified than one with no training.

Publicity was discussed, and members were urged to do what they could to make the public tree-conscious. Considerable publicity is being given the problem of the Dutch elm disease; a worthwhile meeting was held at Hamilton on the subject not long ago. It was decided to in-

corporate the information given at that meeting in the minutes of the annual meeting.

The morning session was concluded with a film and brief talk on malathion, an insecticide which offers control of most pests on ornamentals and shade trees, with low toxicity to humans. In populated areas, malathion has proved invaluable for control of aphids, scale, birch leaf miner, pine-shoot moth and other insects. After the film, Dr. G. S. Cooper, of Cyanamid of Canada, Ltd., discussed the properties of malathion. Although malathion can be used effectively without harm in most cases, caution in its use on certain maples and on one type of juniper was recommended. He also stated that malathion must be mixed daily to be effective, not carried over in tanks from day to day.

## Tour City

In the afternoon there was a tour of the city, courtesy of the city of Hamilton. Two buses carried the members to various points in the city

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In liners and finished stock.

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## FOR THIS SPRING

Taxus hicksi, heavy, 4 to 4 1/2 ft., 3 1/2 to 4 ft., 3 to 3 1/2 ft., B&B

Austrian Pine, 5 to 6 ft., 4 to 5 ft., B&B

Honey Locust, Thornless, 2 1/2 to 3-in. cal., 2 to 2 1/2-in. cal., B&B

Flowering Crab Apple, heavy, in variety, 8 to 10 ft., B&B

French Hybrid Lilac, 6 to 7 ft., B&B

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Taxus, Ilex and other Ornamentals.

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FAIRVIEW, Erie Co., PA.

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## TOO LATE TO ORDER?

You still have plenty of time because **MUMS** planted as late as the end of June will still make up into specimen stock. Let this fine, economical display give you that extra selling power to help pep up fall sales.

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P. O. Box 189 Painesville, Ohio

where tree work was being conducted. Demonstrations of pruning, planting and tree removal were all viewed with interest as the cars stopped to let the members examine in detail the work being done. Considerable attention was given to the stump cutter, although each stop had a definite point of interest.

The banquet, social highlight of the two days of sessions, was held the first evening. Gordon McNair presided over the introductions, brief speeches and entertainment.

April 26 the members met at Mills Memorial Library theater of McMaster University, where a panel of experts suggested a coordinated program of tree maintenance and line clearance and a long-range program of street tree planting. The speakers were all from Hamilton and told what a municipality can do with an ambitious program.

William Muirhead, streets commissioner, cited the historic problem of city trees, telling how ordinary forest types had been planted perhaps 100 or even 50 years ago without any thought of the conveniences which have developed in the present day. He mentioned how these trees conflicted with present utilities and stated that Hamilton had hired an arborist to preserve the trees and overcome the difficulties as much as possible.

William Phillips, sewer design engineer, spoke of the problems under the pavement, mentioning that in some places in the city there is not 10 square feet of space free from sewer, hydroelectric, water, telephone or gas lines. Because of the crowded underground services, digging up roots has proved a hazard. Soft maples, poplars and willows are chief nuisances, with their roots getting entangled in sewers.

J. F. McDiarmid, chief district

## SPRING, 1958

### A few items in quantity.

Juniper, Pfitzer, 12 to 15 ins., 15 to 18 ins., 18 to 24 ins., 2 to 2 1/2 ft.

Other Junipers in variety.

Dogwood White, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Dogwood, Pink, 3 to 4 ft., 4 to 5 ft.

Crab Apple, Hops and Eleyi, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Crab Apple, Bechtel's Double-Flowering, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.

Elm, Chinese, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

These Elms have unusually straight stems.

Maple, Norway, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

Maple, rubrum, 1 1/4-in. cal., 1 1/2-in. cal., 2-in. cal., 2 1/2-in. cal.

Maple, schwedleri, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Maple, Soft, 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Locust, Thornless, 6 to 8 ft., 8 to 10 ft., 1 1/4-in. cal., 1 1/2-in. cal.

Oak, Pin, 1 1/4-in. cal., 2-in. cal.

Redbud, 3 to 4 ft., 4 to 5 ft.

Thorn, cordata, 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.

Thorn, crugalli, 3 to 4 ft., 4 to 5 ft.

Cornus paniculata, 3 to 4 ft., 4 to 5 ft.

Cotoneaster divaricata, 2 to 3 ft., 3 to 4 ft.

Privet, Amur North, 3-yr., heavy, 12 to 18 ins., 18 to 24 ins., 2 to 3 ft.

Privet, ibolium, 3 to 4 ft., 4 to 5 ft.

Purple Fringe, 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Spiraea vanhouttei, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

Viburnum dentatum, 3 to 4 ft., 4 to 5 ft.

Weigela rosea, 2 to 3 ft., 3 to 4 ft., 4 to 5 ft.

Forsythia Spring Glory, 3 to 4 ft., 4 to 5 ft.

Forsythia spectabilis, 4 to 5 ft., 5 to 6 ft.

Philadelphus coronarius, 3 to 4 ft., 4 to 5 ft.

Apricots, heavy, XX

Apple, 1-yr., 4 to 5 ft., 5 to 6 ft.

Apple, 2-yr., 11/16-in. cal. and XX

Cherry, Montmorency, 2-yr., XXX, XX, 11/16-in. cal.

Plum and Pear, 2-yr., XX, 11/16-in. cal.

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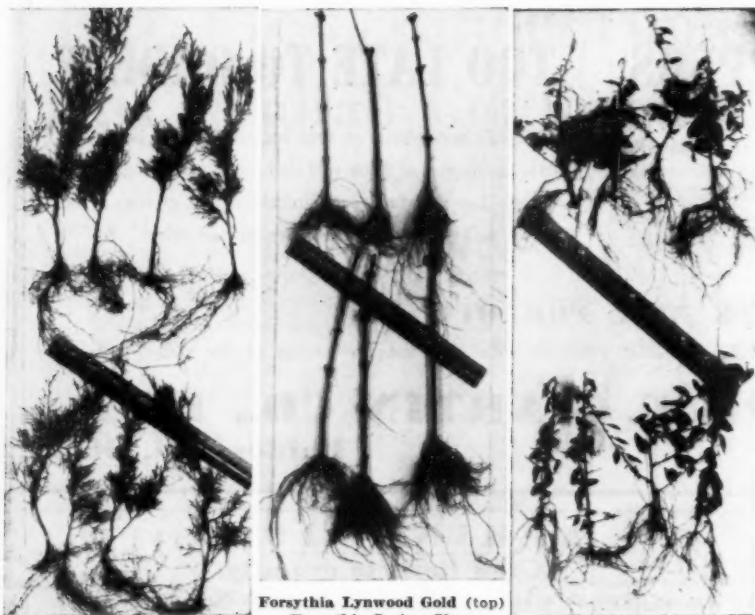
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Battle Creek, Mich.





Pfitzer Juniper

Forsythia Lynwood Gold (top)  
Forsythia Spring Glory  
(bottom)Pyracantha Kasan (top)  
Pyracantha Lalandi (bottom)

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	Each
<b>Euonymus patens</b> Small, medium or large-leaved, 6 to 10 ins. ....	\$0.04
<b>Pyracantha Kasan</b> 5 to 6 ins. ....	.08
<b>Pyracantha Lalandi</b> 5 to 6 ins. ....	.05
<b>Forsythia Spring Glory</b> 6 to 10 ins. ....	.04
<b>Pfitzer Juniper</b> 6 to 10 ins. ....	.08

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Growers of fine  
PEONIES • IRIS • DAY LILIES  
ORIENTAL POPPIES  
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**WASSENBERG GARDENS**  
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**HARDY ENGLISH IVY**  
(Hedera helix)  
Rooted cuttings for landscape planting.  
\$7.50 per 100; \$65.00 per 1000  
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Perry, Ohio

engineer of the hydroelectric system, talked of cooperation with the city arborist. He mentioned how the hydroelectric system assisted financially in clearing trees for hydro lines and told how problems were worked out with arborists to serve both light and tree requirements.

Beautifying the city is part of the Hamilton program, and R. O. Elf-tone, chairman of the beautification committee, outlined how his committee helps the city arborist. The committee turns neglected spots into places of beauty.

Gordon McNair outlined his entire program as city arborist. Of interest were his views on types of trees for new planting. Under utility wires he uses flowering trees, but on the sides of the street where there are no wires he uses the maple, elm, etc.

Mr. McNair spoke of a 5-year program, in which he plans to go over the entire city. His first objective is to clean up and remove hazards.

In the afternoon there were nine demonstrations. Different spray machines were operated and various types of chain saws were seen in action.

### HOLLY PROPAGATION

[Continued from page 8]

struction, except for the omission of the polyethylene liners. The mist plots were watered by oil burner nozzles suspended over the bed. The mist was controlled by a time clock and an interval timer. Mist sprayed on the cuttings 10 seconds out of each minute during the day.

Each of the mist and subirrigation plots was divided into four subplots, each containing a different medium. The four media were a fine-grade plaster sand, a concrete sand, a coarse silica sand screened to 20 mesh and a mixture of four parts silica sand and one of German peat.

The 240 cuttings employed in the experiment were divided so that five cuttings from each of two holly trees were stuck in each medium in each watering system. In the subirrigation plots, the cuttings were stuck at an angle, so that the under-surfaces of the leaves were close to the surface of the medium.

To facilitate evaluation of the results in the different treatments, index numbers were used. All cuttings were placed in one of four categories: (1) Rooting excellent—a heavy mass of roots; (2) rooting sufficient for potting but not heavy; (3) rooting sparse, insufficient roots to pot, and (4) no roots. The numbers 5, 3, 1 and 0 were assigned to each class, respectively. Each cutting given a certain treatment then con-



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tributed 5, 3, 1 or 0 points to a total that was used as the index number of that treatment.

Statistically the only real difference in rooting was due to the different rooting media. However, because of the limited number of replicates possible with the physical facilities employed, the trends indicated by the results deserve some discussion.

The first comparison in the experiment was made between rooting in the mist plots and rooting in the subirrigation plots. All treatments under intermittent mist had an average index number of 11.63 while the average index number for the subirrigation treatment was 9.04. There was a decided indication of the superiority of mist over subirrigation as a watering method for propagation of American holly.

### Other Factors Involved

Before one decides on an automatic watering system for holly propagation, additional factors should be considered. For example, which system will lend itself best to the operations of the propagator? I believe that nearly all large-scale commercial propagators will find mist the most economical system. Amateur propagators, however, may find subirrigation more practical. In a home or basement, subirrigation may be much the easier and more economical system to install. Results

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**NURSERY MANUAL**, by L. H. Bailey. Standard manual on propagation. 470 pages (1920) **\$6.75.** American Nurseryman, Chicago 4, Ill.



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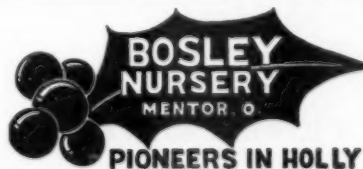
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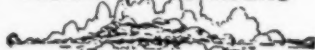
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indicated that, with the proper medium, subirrigation may be quite satisfactory. In addition, cuttings rooted with subirrigation are easier to handle after rooting than cuttings rooted under mist. Cuttings rooted under mist need to be carefully hardened before the mist can be discontinued.

The greatest single factor in successful rooting of holly cuttings in the experiment was the medium employed. A rooting medium must hold sufficient water to supply the needs of the cuttings, but, at the same time, it must hold sufficient air. The fine plaster sand held too much water and too little air for good rooting of holly cuttings. The few roots formed were smooth and white—characteristics of roots formed in the absence of enough oxygen.

The coarse silica sand held too much air and too little water for good rooting. The roots formed were short and stubby, and many of the cuttings dried up. The third medium, concrete sand, a mixture of both fine and coarse sands, had a more favorable balance between water retention and aeration. Rooting of the holly in the concrete sand was superior to that in both the fine and coarse sands.

### Peat Moss-Sand Best Medium

Best rooting of holly occurred when the medium employed was a mixture of one part peat moss and four parts coarse sand. Peat moss is acid and often benefits the rooting of acid-loving plants when incorporated in the rooting medium. It also has the property of maintaining an available supply of water and air at the same time. The beneficial effects of peat moss in the rooting medium are most likely due to the latter property.

In this particular experiment, results were similar for all of the four media employed under both watering systems. This could not always be expected. A different height in the water table in the subirrigation plots or a different amount of water applied as mist could give different results from those obtained in this experiment. In applying these results, each propagator must consider his own conditions. The final comparison in the experiment was between the cuttings taken from two different holly trees. Cuttings taken from one of the holly trees tended to root better than cuttings from the other tree.

In addition to this experiment, we recently did some propagation of American holly in an outdoor bed at the University of Delaware. After

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	10.00	80.00

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	Per 100	Per 1000
• <i>Taxus cuspidata</i> , spreader .....	\$10.00	\$ 85.00
• <i>Taxus hicksi</i> .....	11.00	100.00
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# 8

 ins.  
tall

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Home of Fine Liners

James Wells, James S. Wells Nursery, Inc., Red Bank, N. J., spoke at the Delaware nurserymen's short course two years ago, we stuck some holly cuttings on April 1, following some of his recommendations. Although this was not set up as an experiment and although only a few cuttings were employed, the results were quite convincing with cuttings of *Ilex cornuta*, *Ilex crenata convexa* and *Ilex crenata microphylla*. The value of wounding the cuttings and the value of hormone powder to stimulate root growth on the cuttings were quite evident.

This past fall we wanted to propagate some American holly for use in the university's holly nutrition project. We took what information we had and what we could gain from other people and came up with a highly successful procedure. Out of 800 cuttings stuck, 774, or 97 per cent, were potted up—all with heavy root systems. Thirteen cuttings were rooted but had insufficient roots for potting, and 13 cuttings were unrooted.

Cuttings of the variety Miss Helen were taken August 1 from the orchard of Larry Dodge, Cecilton, Md. The holly orchard there is a young orchard, and this may be important. In our work with propagation of flowering dogwood, we find that cuttings from young trees root and grow much better than cuttings taken from older trees.

The cuttings were cut through the ring at the base of the early season's flush of growth. This was the recom-

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**GREENHOUSE HEATING AND CONSTRUCTION**  
By H. E. Gray. 78 p. (1956). \$1.50.  
American Nurseryman Chicago 4, Ill.

mentation of Henry Kirkpatrick, of Boyce Thompson Institute, Yonkers, N. Y. The cuttings were then wounded as recommended by James Wells by drawing single-edged razor blades, which had been soldered together, along the sides for about one inch at the base of the cutting. Cuttings were then dipped in commercial rooting powder containing 0.8 per cent indolebutyric acid. The rooting medium used was composed of four parts washed silica sand and one part shredded German peat moss. The silica sand was furnished by New Jersey Silica Sand Co. The sand was screened to pass through a 20-mesh screen, but contained both coarse and fine particles.

The cuttings were placed in an outdoor lath bed under mist. The bed was shaded with a single layer of burlap. The shade was used to reduce both the amount of water required and the light intensity. The mist system was automatically controlled by a time clock and an adjustable interval timer set for a 10-minute cycle. When first struck, the cuttings were misted for several minutes out of each 10 minutes during daylight hours. The mist interval was gradually cut to a few seconds out of each 10 minutes; then mist was given every hour and, finally, only a few times a day. The cuttings began to root in three weeks and were heavily rooted in 10 weeks.

## NURSERY'S GARDEN FAIR

A free, educational garden fair, featuring lectures, demonstrations, informational booths and color films, was scheduled for Saturday and Sunday, May 3 and 4, by the Willow Run Nursery, Cresskill, N. J. Lectures arranged for presentation Saturday in a big-top tent erected in the nursery parking lot included "Landscaping Your Home," by Roy De Boer, Rutgers University, New Brunswick, N. J., and "Your Lawn," by James McFaul, Bergen county agricultural agent. Talks scheduled for Sunday were "What's New in Gardening?" by Dr. P. P. Pirone, New York Botanical Garden, New York, N. Y., and "Color by the Month," by Norbert Pendergast, owner of the nursery.

Periodic demonstrations on each day's agenda dealt with such operations as transplanting, pruning and trimming of plants. Among the information points planned for the event were a plant identification booth, offering homeowners an opportunity to have their plants identified by expert horticulturists; booths maintained by fertilizer, lawn seed



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These are very heavy stock ready for  
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and pest control manufacturers, where questions on these products were answered; an exhibit by the Bergen county vocational high school on the types of horticultural courses available to the public, and a booth for general gardening information, staffed by the nursery. A program of motion-picture films on lawn and garden topics was arranged to be shown continuously each morning and afternoon.

Guided tours of the nursery, playground facilities for children and a refreshment stand operated by the local American Legion post were also advertised as features of the event. A special prize of \$100 worth of plants of the winner's choice—to be planted and guaranteed by the Willow Run Garden Shop—was offered each afternoon of the fair. Part of the extensive campaign the nursery carried on to advertise the event was an announcement folder, attractively printed in two colors, giving all program details.

SOLD recently to Peter Silvesman was Leon's Economy Market, a garden supply store, at Seattle, Wash. The name will be changed to Leon's Economy Sales, Inc., and a line of nursery stock will be added under the management of J. L. Robinson.

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Heavy Outdoor Rooted Cuttings  
\$15.00 per 100; \$135.00 per 1000

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# PLANT NOTES HERE AND THERE

By C. W. Wood

## Dimorphotheca Cuneata

An Alabama reader asks if *Dimorphotheca cuneata* would be hardy in the central part of that state and, if not, how it should be handled indoors. *D. cuneata* is a shrubby, south African composite of unknown hardiness, though judging from the reactions of other plants in its locality it would probably be hardy from the inquirer's latitude southward. I only know it from having seen it a few times in eastern greenhouses, where it did well in a coolhouse under the following growing schedule: Cuttings were taken in March, potted up in 3-inch pots of good soil when large enough to handle and shifted as growth required until finished in 8-inch pots. A well-grown specimen at age of 1 year should be 15 inches tall and that much or a little more across and covered with many large, white (buff reverse) daisies. It should continue in that showy state for two months or longer. It appeared to make a splendid, large pot plant and would certainly make a spectacular border specimen.

## Flowering Plants for Midwinter

An Alabama reader has the urge to try his hand at unusual midwinter bloomers to compete with the usual offerings of his fellow tradesmen. Admittedly, the two midwinter months, December and January, constitute a difficult period for flowering plants in the temperate zone, especially pot plants. Since that is the time when flower growers have to meet mounting costs for heating, anything that can be turned into profit then is doubly welcome. For several years I have kept my eyes open for plants that bloom in midwinter, with the result that I have accumulated a brief list of unusual items which could well be the nucleus of a profitable winter business in cut flowers and potted plants. At least our inquirer and anyone else interested in the subject might find the list a jumping-off place in the adventure.

*Eranthemum nervosum*, formerly called *Daedalacanthus nervosum*, a shrubby, Indian member of the useful *acanthus* family, unlike many of the genus, is easy to handle in a warm temperature. I do not recall having seen it in flower in December, but

from January onward its bracted spikes of rich, violet-blue flowers are among winter's most pleasing offerings. It is usually grown in pots and reaches a height of about two feet. All except enough stock plants should be discarded after the flowering season is over, because it is easier to grow young, shapely plants from cuttings than it is to correct the unkempt habits of old ones. Cuttings taken in early spring may be planted outdoors when warm weather is assured, but should be taken up and potted before the first hint of frost. These should make good flowering plants the following winter.

Many kinds of jacobinias, formerly popular in commercial establishments and private conservatories, are now seldom seen, much to the loss of winter beauty and, no doubt, winter sales. None of the kinds the grower is likely to try is harder to grow than the general run of pot plants. Of

these old-time favorites, *J. carnea*, with rosy-purple to pale pink flowers; the floriferous *J. pauciflora* (if that name is not a paradox, what is it?) with yellow-tipped scarlet tubes, and the hybrid *J. penrhosiensis*, which is similar to *J. pauciflora* except that its flowers are larger and it blooms a little earlier, may be mentioned.

The manettias probably need no introduction. *M. bicolor* and *M. inflata* are well known. They have long been used as trellis plants in the far south and in southern California, as well as for indoor decoration in houses that are kept about 50 degrees Fahrenheit in the north. Growers who are unacquainted with them might find it worthwhile to investigate their possibilities.

*Lachenalias* are good winter producers of cut flowers. If they are planted in August or early September and the pots are kept in a cold-frame until November and then

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brought into a 50-degree F. temperature, plants should provide much cutting material and find ready sale. They come into flower quickly after being brought into warm quarters. A bulb wholesaler should be consulted on available kinds best adapted to one's needs.

The two species of reinwardtia, *R. indica* (the plant that was formerly called *R. trigyna*) and *R. tetragyna*, are attention-arresting plants during the winter while they are displaying their large, linum-like, yellow flowers. To do that, however, they need sunshine. It is not apparent that they need so much as the literature indicates, because I have seen them blooming well during the cloudy weather of winter in the lake regions. They are not difficult at any period and thrive with ordinary, sandy loam. Cuttings of strong growths, which break at the base after the plants are cut back, root readily in spring. April is the usual time to propagate them. These, grown in pots and pinched occasionally, make good specimens the following winter. A temperature of 55 to 60 degrees is recommended.

The foregoing is no more than a start in a listing of unusual winter bloomers. Popular kinds like azaleas, begonias and primroses were omitted for obvious reasons, while others, like the hot-temperature strobilanthes, were not included because of their touchy natures, and still others, like the attractive *Senecio grandiflorus*, were left out because of their large size.

#### Achilleas for Cutting

Except for *Achillea ptarmica* and its numerous forms, no yarrow is widely used for cut flowers. Perhaps *A. filipendulina* should be included among the exceptions, but it seems to enter the market oftener as a dried flower than fresh. *A. filipendulina*, as I have pointed out in this column on several occasions, is a worthy subject, especially when one has a form, as Parker's variety, that has lost much of the brassiness of the type.

There are other yarrows, of course, such as the common milfoil, *A. millefolium*, and its many varieties, but I should like to direct the attention of growers and users of cutting material to two kinds, *A. clypeolata* and *A. taggetea*, which are only now getting around in gardens to any extent. The first of these, a Balkan and Greek species, has flowers of a soft canary yellow, pleasing of shade and shape. The large heads of *A. filipendulina* have been retained, though the dull green foliage has been replaced by long, white, tomentose, ferny leaves, and there are stiff, wiry stems up to

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two feet in length. These features make the plant a grand addition to the list of cut flower and garden yarrows. About everything said of *A. clypeolata* also could be said of *A. taggetea*, except for the whiteness of the leaves.

In their role as cut flowers, they are not only valuable fresh, but also when dried for winter bouquets. They probably could be dyed, if this were desirable. As garden plants, they and their forms will surely assume useful roles as the years go by. The types may be grown from fall-sown seeds, but named forms should be grown from divisions and from cuttings, the latter preferably taken in summer.

### *Liatris Scariosa Alba*

A reader writes in part as follows: "I have been experimenting of late years with *Liatris scariosa*. I started when I found out how useful its white-flowered form could be. But the variations in growth habits when it is grown from seeds are too great to allow merchandising unbloomed seedlings among a critical clientele. Would you care to give us a resume of your experiences with the plant?"

My correspondent has evidently found the same difficulty in growing variety alba from seeds that I did when I commenced to experiment with it almost 25 years ago. Generally speaking, one can expect to get type *scariosa* to come true to its quite universal strict, unbranched spike growth; when it varied to white in color of flower, the plant also added other forms of growth, varying from shapely pyramids to real bushes. That makes for interesting differences, but does not mean a lot of marketable uniform plants.

Unless my correspondent is more interested in working for improved forms than in growing uniform plants, I suggest that he commence with the named varieties, such as September Glory and White Spire, and grow his plants from leaf cuttings. That is done by pulling away the basal leaves with a heel of the tuberous root, thus insuring that the adventitious bud is at the base of the leaf, and rooting them in a lath-shaded frame or similar place.

Perhaps this is a good time and place to make a more general examination of the blazing star. The reaction of gardeners to plants is an unsolved mystery that has baffled me for a long time. Careful observations have convinced me that Uncle Josh was right when he said, "Everyone is out of step 'cept me." How otherwise can the general preference for

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*L. pycnostachya* over *L. scariosa* be explained? *Scariosa*, because of its loose, graceful inflorescence and height of five or six feet in well-grown, selected plants, is, I think, far superior both for garden use and for cutting to the close set spikes of *L. pycnostachya*. Both kinds and all their forms are useful, but they serve different purposes, some being especially useful for cutting, while others are better for special garden roles.

Here is a plant with vast possibilities in the hands of the nurseryman, not only for its present forms, but also for the improvements which are in them inherently. There is a field for selection in almost any batch of seedlings, opening up another avenue of profits for the careful grower. *Liatris* is easy to manipulate, starting with 2-year-old seeds (fresh seeds of *liatris* seldom give satisfactory results) and sowing them outdoors in autumn. Fortunately, the white-flowered form comes true from seeds as far as flower color is concerned, though the form of growth and size of the individual flowers may vary, along with the size of the individual flower.

#### *Sabatia Dodecandra*

I have had so little success with *sabatia* that I could not answer a question on the culture of seacoast *S. dodecandra*, so I called upon a friend for advice and received the following: "*Sabatia dodecandra* seeds, like most of their kind, lose their viability rapidly, so should be sown as soon as ripe. The small seeds should be pressed into the top of the soil and the surface covered with mulch paper. The flats or pots should be left in a cool, protected place where the thermometer will remain near freezing but the soil will not actually freeze. At the approach of spring, the mulch can be removed and seeds should germinate readily. I like to water from below until the seedlings are well established. When plants are large enough to handle, they should be transplanted to light, preferably sandy soil. *Sabatia dodecandra* is a seashore plant, usually found in brackish, acid soil. It should grow to a pretty bush, to two feet or so in height, with large rose-pink flowers. It is short-lived under cultivation and apparently in nature; so it should be frequently renewed."

#### *Saponaria Semperflorens Nana*

There is a soapwort found sparingly in gardens (so sparingly that I have not been able to locate it at all during the past five years) under the name *Saponaria semperflorens nana*



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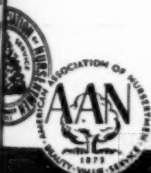
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that I should like to get straight in my mind. All that I know about the plant makes me enthusiastic about it and its possibilities as a garden plant after its quirks are worked out. If anyone knows anything about the plant or a source of supply for either seeds or plants, please write me. To make the picture as clear as possible, I quote two notes, the first from my own notebook of November 10, 1937, and the other from "Hortus."

From my notebook: "A plant which has appeared sparingly in recent American catalogs as Saponaria semperflorens nana, a name for which I find no authority, seems to possess much garden value. It has not been hardy in our trials, and I am not even sure that it is a perennial; I do know that it blooms within two months of sowing, if the seeds are frozen, and may, therefore, be used as an annual. It grows into a little bush, eventually five inches tall, as it grew here. It commences to bloom when not over half that high and continues to produce its pink, soapwort flowers, quite like the familiar *S. ocyroides*, until cut down by frost. Even though it is little more than an annual in my climate, it is quite the best soapwort I know, blooming freely all summer with little care."

From "Hortus": "Horticultural name of a dwarf, robust, long-blooming form, probably of *S. ocyroides* although said to be nontrailing."

### TRAINING A SALES FORCE

[Continued from page 12]

and if they can learn about the various plants they see, much time will be saved in the long run. These labels should be weatherproof and give the salient facts about the plants, such as sun or shade tolerance, ultimate height and spread, type of soil preferred and color of blooms.

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the customer with a friendly feeling toward both salesman and establishment.

A safeguard to consider, if one has a sales force of any size, is some type of seasonal audit. By this I mean the hiring of a reliable outside firm to make an impartial yearly check on the sales personnel. This accomplishes two purposes: It satisfies the owner that none of his employees is "dipping into the till," and it provides unbiased reports on the sales techniques of his staff.

This service usually costs about \$100 or \$200 for a sales force of from five to 10 persons. Employees of such a service organization generally work in teams of two shoppers and check their purchases against the amount rung on the cash register. Material purchased is returned for credit at some later date. Evaluation studies are made of each salesman and the data submitted in a final report. The shoppers operate efficiently and without arousing suspicion on the part of anyone.

I have always felt that it is far easier to make a nurseryman out of a good salesman than to make a good salesman out of a nurseryman. Some individuals will never make good salesmen. Others can be taught, but it is a waste of time and money to try to train a person who does not have the fundamental requirements of a good salesman. These necessary attributes are a good appearance, mental alertness, the ability to meet people, ambition and the desire to learn. Given these qualities in an employee, one should be able to train him adequately and familiarize him with nursery stock. I believe that the nursery and garden supply business in general will have to raise its standards of wages and working conditions in order to attract employees who possess these attributes. In the long run, I think that employing a higher type of sales personnel will pay dividends in increased sales and greater profits to the industry.

#### FOR SEEDLING GROWERS

An oblique root-pruning blade and a broadcast seeding machine are two pieces of equipment described in "Tree Planters' Notes," No. 31, for February, 1958, a publication for nurserymen and planters of forests and shelterbelts issued by the forest service of the United States Department of Agriculture, Washington, D. C. This issue is devoted to equipment and techniques. Among the latter, the uses of sawdust are described in several articles.

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## CALIFORNIA ASSOCIATION OF NURSERYMEN

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### CENTINELA CHAPTER

A meeting of the board of directors of the Centinela chapter of the California Association of Nurserymen was held at the home of President George Schmidt, Frontier Nursery, Redondo Beach, April 14. Treasurer Keiji Yata, Yata Nursery, Torrance, reported that there was \$767.95, less outstanding bills, in the treasury. No decision was made on a central meeting place for general meetings.

State director Richard Oehlman, Florence Nursery, Los Angeles, reported on the recent state board meeting. Mr. Oehlman said that a questionnaire on the 1959 convention site will be circulated and that if 125 members agree to attend the convention in Hawaii, then it will be the site of next year's meeting.

Participation by the group in the recent California flower show was discussed. It is expected that the \$400 check received from the show will cover all chapter expenses. President Schmidt read a letter from the flower show officials thanking the chapter for its participation.

Secretary Bo Packard, Capel-Klang, San Francisco, read a letter from Elmer Merz, executive secretary of the C. A. N., announcing that the Hawthorne Nursery, Hawthorne, had requested a transfer from Sunset to Centinela chapter. The transfer was made officially.

The next chapter meeting will be at Tai Song's Chinese cafe, Manhattan Beach, May 22. The next board meeting was scheduled for May 12, at Tai Song's. The June board meeting will be held at the home of Reg Whitney. Bo Packard, Sec'y.

### INLAND EMPIRE CHAPTER

Inland Empire chapter, California Association of Nurserymen, met April 8 at the Dinnerhorn restaurant, Riverside. About 50 members enjoyed a buffet dinner and heard Richard McFarland, of Hixson & Jorgenson, Inc., a Los Angeles advertising agency, speak on advertising. Jim Hunt, Jim's Landscape Center, San Bernardino, vice-president and program chairman, introduced the speaker.

Mr. McFarland contended that professional guidance in advertising

is a good business policy. Two per cent of the gross sales volume, he said, should be budgeted for advertising, including newspapers, magazines, theater programs, outdoor billboards, telephone books, direct mail, radio and television. Items that do not belong in the budget are free goods, charity contributions, labels, price lists, entertaining costs and association dues.

Efficient advertising concentrates on putting across two or three ideas at a time. Identity and personality of a business are desirable features in advertising. Mr. McFarland suggested that service, parking space

and free gifts be advertised, rather than price. Advertisements should be aimed at individuals, not just to anyone, he concluded. D. C.

### CALIFORNIA ARBORISTS

At the April 16 meeting of the California Association of Arborists, a color-sound movie describing mildew and its control and a series of color slides on termites and other wood-destroying organisms were shown. The program and the question periods took so much time that President Silvester Evans, California highway division landscape architect, decided to forego business matters until the May 21 meeting.

The film showed powdery mildew to be a high-humidity disease, most commonly found in the northwest and eastern states. The discussion was primarily on control of the disease on apples, but a guest, Dr. Pierre Miller, recently retired plant patholo-

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gist from the University of California, advised that the same organism attacks ornamentals in the bay area and all that was said about the disease and its control on apples was applicable to California conditions.

Winter survival of the host, it was reported, is poor. However, the various forms of mildew do winter over in the leaf or fruit buds and thus can withstand long cold or dry spells. The spores can be blown in by the wind or introduced into the orchards on new, diseased trees.

Controls recommended were pruning and spraying. For younger trees, all the stems which show signs of the disease should be pruned and burned outside the orchard. For older trees, which must be reached by a scaffold or a ladder, spraying was declared the less costly and less dangerous method of control. It was noted that sulphur sprays can be used and that it takes three sprayings for at least two years to clean up serious outbreaks. A good wetting agent is needed with most sprays used for mildew control.

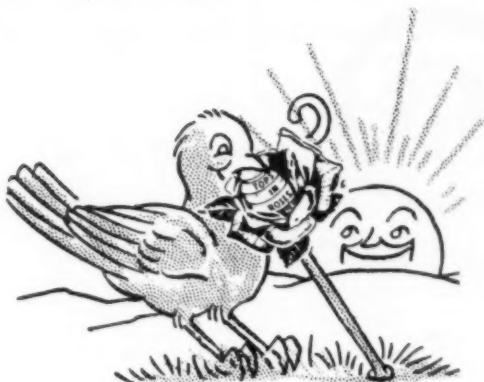
#### Wood-Destroying Organisms

The talk on wood-destroying organisms was made by Lawrence Carney, of the Rose Pest Control organization. He showed color slides and told about the damage done by the pests which he pictured. These included subterranean and several other kinds of termites, powder-post and other wood-infesting beetles, several kinds of wood borers and carpenter bees. He also spoke of wood-destroying fungi which infest wooden buildings. The fungi, he said, are less well known, but do their work faster and often more completely than insects.

Ants do attack termites, he said, but the termites always win; so it is a fallacy to feel there will be no termite damage where there are ants. It is false that termites will not attack redwood, though they prefer other kinds of wood. Termites can work in dry areas, carrying moisture from the ground and introducing moisture-securer fungi into their canals. They can work through the smallest cracks, and a concrete slab under a house will not assure permanent protection. They will attack new wood as readily as old.

Termites seem to be present in all California soil, especially in the interior valleys, and there are few fruit trees in the Santa Clara valley which are not hosts to immense colonies of termites. It is typical of termites not to do so much damage that the structure in which they are living will die or collapse. The other pests seem bent on completely destroying everything as fast as they can. W. B. B.

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## OREGON NOTES

At the past meeting of the Wilamette chapter of the Oregon Association of Nurserymen, held at the home of Donald Doerfler, Doerfler & Sons, Salem, the following officers were elected for the year: Wayne L. Weeks, Weeks Berry Nursery, Salem, president; Verl L. Holden, H. L. Percy Nursery Co., Salem, vice-president, and Martha Jane Percy, H. L. Percy Nursery Co., secretary-treasurer. On the board of directors are Millard Henry, Henry Camellias & Azaleas, Brooks, and Ernest Iufer, Iufer Landscape Co., Salem. Elected as the chapter representative on the O. A. N. board of directors was Wayne L. Weeks. Among the subjects discussed at the meeting were the business outlook for the future, nursery pricing practices and futures in small fruits and dwarf fruit trees. W. P. Nuffer, Mountain View Nurseries, Troutdale, talked on container growing and showed some interesting slides to the group.

Over 50 members attended the meeting of the Rose City chapter of the O. A. N. held April 14 at the Mayfair House, Portland. President Robert Walker, Holgate Nursery Co., Portland, led the meeting. The O. A. N. president, Joseph Klupenger, Klupenger Nursery Co., Portland, reported on the Multnomah county garden show at Gresham, as did Robert Snodgrass, Esch Nursery, Portland, O. A. N. vice-president and general chairman of the garden show. Mr. Klupenger also told about the fine progress of the O. A. N. chapters. Emmett Shaffer, Shaffer's Pansy Gardens, Portland, and George Caldwell, Start Street Nursery, Portland, members of the state board of directors for the Rose City chapter, reported on the recent board meeting held at Salem. Mr. Charles Leon, prominent amateur rose grower and a member of the Portland Rose Festival Association, described plans for the 1958 festival to be held in June and urged individual nurserymen and the Rose City chapter to take part in the commercial portion of the program. Approximately 500,000 persons, he said, will see the show this year.

Plans for the O. A. N. convention to be held at Eugene, Ore., January 8 and 9, 1959, were discussed at a convention committee meeting held April 15 in the Hotel Eugene. Present from the city were Reed Vollstedt, Reed's Garden Centers; Bruce Brechtbill, Brechtbill's Nursery; Ed Cross, Cross Landscape Service, and Robert Zonneveld, Van Dyke Gardens. State officers present were

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French strain English Holly, R. C., in bands, \$20.00 per 100; Variegated Holly, R. C., in bands, \$25.00 per 100.  
Camellias, mixed varieties, R. C., 15¢ each; Hexe, R. C., 6¢ each.  
Semidwarf Box, R. C., 5¢ each.  
English Privet, 3 to 4 ft., 12¢ each.  
GROUND COVER: English Ivy, Hypericum and Kianikianiek.

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President Joseph Klupenger; Vice-president Robert Snodgrass; Treasurer Paul Van Allen, all of Portland, and Charles Potter, executive secretary, Milwaukie. The committee discussed all phases of the convention planning, including hotel arrangements, which were formulated with Paul Lansdowne, the manager of the Hotel Eugene. The convention program includes speakers of national note, fine music and entertainment, with special events for the ladies. A trade fair will be held.

The Columbia River chapter of the O. A. N. held a dinner meeting at the East Winds cafe, Gresham, April 24. Speaker for the group was John Merrifield, and his topic was "Don't Sell Oregon Short."

The Sunset chapter of the O. A. N. met April 21 at the Forest Hills Country Club. David E. Thompson, landscape architect, talked about present trends in plant materials for home, industrial and commercial plantings. Phillip Bovee showed slides of the western Pacific, which he took while serving in the Pacific during World War II.

Julius LaRosa, famed singer, was surprised, while visiting a Portland TV program recently, to be presented with an Audie Murphy rosebush by the Roseway Nurseries, Beaverton. Roseway Nurseries regularly give rosebushes to winning contestants on a local teen-age TV program.

The Oregon chapter of the National Chrysanthemum Society will be host to the annual meeting and show at the Civic Auditorium, Portland, October 31. "Pacific Mum Parade" will be the theme of the show.

Mr. Robertson, Robertson Nursery, Portland, is reported to be progressing satisfactorily after serious surgery in Providence hospital.

Villa Ridge Nursery, 11333 Southwest 64th street, Portland, was sold to the Shell Oil Co. by Mr. and Mrs. Vernon Chausse. Mr. Chausse will be working with the state nursery department on a project in the near future.

Recently returning from the North American Daffodil Society meeting at Atlanta, Ga., were Jan de Graaff, Oregon Bulb Farms, Gresham, and Grant Mitsch, another prominent bulb hybridizer of the area. Both men participated in a special symposium held at the meeting.

Lawrence Underhill, Portland landscape architect who designed the theme garden of the 1958 Multnomah "Parade of Gardens" at Gresham, April 23 to 27, and Robert Snodgrass, Esch Nursery and Seven Dees Nursery, Portland, general

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chairman of the show, were shown in a full-page picture on the cover of the Northwest Living magazine, Sunday, April 20. Both men were also pictured in an article concerning the garden show in the April

20 issue of the Home and Garden magazine of the Oregonian. Also shown was the O. A. N. president, Joseph Klupenger, who acted as publicity chairman for the Multnomah show.  
C. H. P.



# CLASSIFIED ADS

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Instructions for the June 15 issue must be received by Friday, May 23.

Forms for July 1 issue will close Friday, June 6.

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200 Iveryana Lay 500 Violaeca  
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500 Dorothy Gish 250 Memoria Sanders  
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Well-branched transplants.  
\$14.00 per 100, \$125.00 per 1000.  
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Grafted and own-root indicas.  
Broad-leaved evergreens and Taxus varie-  
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Per 100 Per 1000  
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Special price in large quantities.  
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Heavy stock. Per 100 Per 1000  
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6 to 9 ins., 2-yr., s ..... \$ 6.00 \$50.00  
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\$14.00 per 1000. These are young, healthy,  
moss-packed plants, grown from virus-free  
stock. Guaranteed to reach you in good grow-  
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Vigorous, double inspected, moss-packed.  
Senator Dunlap ..... \$ 7.50 per 1000  
Gem Everbearing ..... 15.00 per 1000  
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### BEGONIAS

**DOUBLE CAMELLIA-FLOWERED**  
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Red, orange, salmon, yellow, scarlet, pink,  
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Cash with order. F.O.B. Battle Creek, Mich.  
**VERONA GARDENS, TED GREVERS**  
Route 5 Battle Creek, Mich.

## BULBS AND TUBERS

**FANCY-LEAVED CALADIUM BULBS**  
Finest quality, commercial named varieties.  
No. 2, 1 to 1 1/2-in. .... \$ 7.00 per 100  
No. 1, 1 1/4 to 2 1/2-in. .... 13.50 per 100  
Jumbo, 2 1/4 to 3 1/2-in. .... 19.00 per 100  
Mammoth, 3 1/2-in. and up ..... 25.00 per 100  
Please write for list of varieties and special  
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We guarantee our bulbs.  
**N. H. SIMPSON, LAKE PLACID, FLA.**

**MICHIGAN-GROWN GLADIOLI**  
We would like to have you try our bulbs.  
These mixtures contain many good colors.  
Per 1000 Gladioli bulbs Nos. 1 2 3  
Giant exhibition mixture ..... \$25 \$20 \$15  
Fancy blended mixture ..... 30 24 19  
Daily express shipments.  
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**FANCY-LEAVED CALADIUM BULBS.**  
Write for prices and color folder.  
Shipping now.  
**TUBBS BULB FARM**  
Box 953 Sebring, Fla.

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**BUXUS SEMPERVIRENS (BOXWOOD)**  
Strong rooted cuttings from open field bed,  
\$6.00 per 100, \$50.00 per 1000.  
**MOUNTVILLE NURSERIES**  
Mountville, Ga.

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**CAMELLIA SASANQUA**  
Surplus potted liners, 2 1/2-in. pots.  
Shishigashira (6 to 8 ins.)  
Cleopatra (8 to 12 ins.)  
Maiden's Blush (8 to 12 ins.)  
Pink Snow (8 to 12 ins.)  
Usu Beni (8 to 12 ins.)  
**SPECIAL PRICE, \$20.00 per 100.**  
**COTTAGE HILL NURSERY**  
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**FLORETUM COLORFUL GARDEN MUMS.**  
Top-grade and new varieties. Bred for early  
blooming, frost tolerance, winter hardiness.  
**ROOTED CUTTINGS**, pinched, branched,  
outside hardened. (No potting necessary.)  
Ideal for planting out any time until late  
June. All bloom abundantly at regular time.  
Labeled.  
5 each, 20 varieties, 100 plants ..... \$ 10.00  
5 each, 50 varieties, 250 plants ..... 25.00  
5 each, 100 varieties, 500 plants ..... 50.00  
5 each, 150 varieties, 750 plants ..... 75.00  
5 each, 200 varieties, 1000 plants ..... 100.00  
12 each, 20 varieties, 200 plants ..... 14.00  
10 each, 50 varieties, 500 plants ..... 35.00  
10 each, 100 varieties, 1000 plants ..... 70.00  
10 each, 150 varieties, 1500 plants ..... 100.00  
25 each, 20 varieties, 500 plants ..... 30.00  
25 each, 50 varieties, 1250 plants ..... 75.00  
25 each, 100 varieties, 2500 plants ..... 125.00  
**PRAIRIE SOUTHWEST FLORETUM**  
Fall River, Kan.

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Send for our trade list  
**YOU WILL BE GLAD YOU DID.**  
**FARM OF PASCHKE, NORTH EAST, PA.**  
Best selling variety specialists

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Hardy field-grown clumps with all the runners intact, \$10.00 per 100, \$90.00 per 1000. Available now. F.O.B. Zeeland, Mich. 60 varieties to choose from in the cushion and also taller growing varieties. Ask for new list.

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Over 20 fine varieties. Ready for resale.

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Write for a complete listing of the best varieties for every use.

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## CLEMATIS MONTANA RUBENS

(Pink Anemone Clematis)

A strong, vigorous hardy variety thriving

under most adverse conditions. Blooms profusely

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3 to 4 ft., staked, field-grown, br., \$100.00 per 100.

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## GIANT PACIFIC HYB. DELPHINIUM

Black Knight, Blue Bird, Camellard, Galahad, King Arthur, Summer Skies. SEED-

LINGS, 100 or more per flat, straight colors

per flat, 2 flats per carton, \$6.00 per carton.

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Harvard, Ill.

## PACIFIC HYBRID DELPHINIUM

Galahad, white

Round Table, mixture of blue shades.

2-in. pots, \$11.00 per 100, \$100.00 per 1000.

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## PINK-FLOWERING DOGWOOD

(Cornus florida rubra)

AMERICA'S FAVORITE

FLOWERING TREE.

Each, 10 100 1000

3-YEAR

2 to 3 ft., bare-root ..... \$2.00 \$1.75 \$1.50

3 to 4 ft., bare-root ..... 2.50 2.00 1.75

4 to 5 ft., bare-root ..... 3.50 3.00 2.75

5 to 6 ft., bare-root ..... 4.50 4.00 3.75

Budded on transplanted seedlings.

Heavy, fibrous root system.

Sturdy caliper.

Heavily branched.

Properly grown.

Liberal grading.

50 or more at 100 rate.

300 or more at 1000 rate.

NAUGHER'S packing is free when cash,

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You'll like NAUGHER'S quality!

## NAUGHER NURSERY

Chase, Alabama

## PINK DOGWOOD

5000 3 to 8 ft.

Extra heavy, 5 and 6-yr.-old.

## WHITE DOGWOOD

10,000 3 to 18 ft.

VOYTESHARK FARM NURSERIES

Corner of Naugatuck Ave. and

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Phone TR 4-3498

## EVERGREENS, Liners

## CANADIAN HEMLOCK, BALSAM FIR.

## WHITE SPRUCE

4 to 8 ins., \$30.00 per 1000.

8 to 12 ins., \$60.00 per 1000.

12 to 20 ins., \$50.00 per 1000.

First-quality collected Evergreens.

Carefully dug and packed.

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## CHERRY LAUREL SEEDLINGS

3 to 6 ins. ... \$ 5.00 per 100, \$ 40.00 per 1000

8 to 12 ins. ... 10.00 per 100, 90.00 per 1000

12 to 18 ins. ... 15.00 per 100, 140.00 per 1000

No C.O.D.

## PINKSTON NURSERIES

Parrott, Ga.

## EVERGREEN LINERS

Rooted cuttings, 100 1000

Taxus cuspidata, 6 to 8 ins. ... \$ 9.00 \$ 80.00

Taxus fastigiata, 6 to 8 ins. ... 10.00 90.00

Taxus intermedia, 6 to 8 ins. ... 11.00 100.00

Juniperus glauca hetzi, 6 to

8 ins. ... 10.00 90.00

HILLCREST GREENHOUSES, Franklin, Pa.

## POTTED AND FIELD LINERS

Per 100 Per 1000

Taxus media Adams

1-yr., 2 1/4-in. rose pots, ..... \$18.00 \$170.00

4 to 6 ins. .... 24.00 220.00

2-yr., 2 1/4-in. rose pots, ..... 35.00 325.00

8 to 12 ins. .... 18.00 170.00

3-yr., TT, 8 to 12 ins. .... 20.00 180.00

6 to 10 ins. .... 25.00 230.00

Taxus media browni

1-yr., 2 1/4-in. rose pots, ..... 20.00 180.00

4 to 6 ins. .... 25.00 230.00

2-yr., 2 1/4-in. rose pots, ..... 24.00 220.00

8 to 12 ins. .... 20.00 180.00

3-yr., TT, 8 to 12 ins. .... 25.00 230.00

6 to 10 ins. .... 30.00 270.00

Taxus cuspidata, semi-up

1-yr., 2 1/4-in. rose pots, ..... 20.00 180.00

4 to 6 ins. .... 25.00 230.00

2-yr., 2 1/4-in. rose pots, ..... 35.00 325.00

8 to 12 ins. .... 18.00 170.00

3-yr., TT, 8 to 12 ins. .... 20.00 180.00

6 to 10 ins. .... 25.00 230.00

Taxus cusp. capitata, seedling-

grown, 3-yr., 2 1/4-in. rose

pots, 3 to 6 ins. .... 22.50 200.00

3-yr., 2 1/4-in. rose pots, ..... 27.50 250.00

4 to 6 ins. .... 35.00 325.00

3-yr., TT, 8 to 12 ins. .... 18.00 170.00

6 to 10 ins. .... 20.00 180.00

Taxus media hatfieldi

1-yr., 2 1/4-in. rose pots, ..... 25.00 230.00

4 to 6 ins. .... 20.00 180.00

2-yr., 2 1/4-in. rose pots, ..... 35.00 325.00

8 to 12 ins. .... 18.00 170.00

3-yr., TT, 8 to 12 ins. .... 20.00 180.00

6 to 10 ins. .... 25.00 230.00

Taxus media hickelii

1-yr., 2 1/4-in. rose pots, ..... 18.00 170.00

4 to 6 ins. .... 20.00 180.00

2-yr., 2 1/4-in. rose pots, ..... 35.00 325.00

8 to 12 ins. .... 24.00 220.00

Taxus intermedia

1-yr., 2 1/4-in. rose pots, ..... 18.00 170.00

4 to 6 ins. .... 20.00 180.00

2-yr., 2 1/4-in. rose pots, ..... 35.00 325.00

8 to 12 ins. .... 24.00 220.00

Taxus media kelseyi

1-yr., 2 1/4-in. rose pots, ..... 25.00 230.00

4 to 6 ins. .... 20.00 180.00

2-yr., 2 1/4-in. rose pots, ..... 35.00 325.00

8 to 12 ins. .... 24.00 220.00

Taxus media thayerae

1-yr., 2 1/4-in. rose pots, ..... 18.00 170.00

4 to 6 ins. .... 20.00 180.00

2-yr., 2 1/4-in. rose pots, ..... 35.00 325.00

8 to 12 ins. .... 24.00 220.00

Taxus media wardii

1-yr., 2 1/4-in. rose pots, ..... 22.50 200.00

4 to 6 ins. .... 27.50 250.00

3-yr., TT, 8 to 12 ins. .... 35.00 325.00

6 to 10 ins. .... 18.00 170.00

Taxus media wellesleyana

4-yr., TT, 8 to 15 ins. .... 50.00 450.00

Juniperus horizontalis plumosa

1-yr., 2 1/4-in. rose pots, ..... 20.00 180.00

4 to 6 ins. .... 25.00 230.00

2-yr., 2 1/4-in. rose pots, ..... 30.00 270.00

8 to 12 ins. .... 20.00 180.00

Juniperus communis depressa

aurea, 2-yr., TT, 6 to 12 ins. .... 30.00 270.00

Juniperus glauca hetzi

1-yr., 2 1/4-in. rose pots, ..... 20.00 180.00

4 to 6 ins. .... 25.00 230.00

2-yr., 2 1/4-in. rose pots, ..... 30.00 270.00

8 to 10 ins. .... 24.00 220.00

Juniperus (Irish) fastigiata

1-yr., 2 1/4-in. rose pots, ..... 20.00 180.00

4 to 6 ins. .... 25.00 230.00

2-yr., TT, 8 to 12 ins. .... 30.00 270.00

Juniperus chin. pfitzeriana

1-yr., 2 1/4-in. rose pots, ..... 22.50 200.00

4 to 6 ins. .... 26.00 240.00

2-yr., 2 1/4-in. rose pots, ..... 30.00 270.00

8 to 10 ins. .... 24.00 220.00

Thuja occ. douglasii

2-yr., TT, 6 to 12 ins. .... 30.00 270.00

Thuja occ. elegantissima

1-yr., 2 1/4-in. rose pots, ..... 20.00 180.00

4 to 6 ins. .... 25.00 230.00

2-yr., TT, 6 to 8 ins. .... 30.00 270.00

Thuja occ. globosa

2-yr., TT, 6 to 8 ins. .... 30.00 270.00

Thuja occ. Hetsz's Winter Green

1-yr., 2 1/4-in. rose pots, ..... 20.00 180.00

4 to 6 ins. .... 25.00 230.00

Thuja occ. pyramidalis

1-yr., 2 1/4-in. rose pots, ..... 18.00 170.00

4 to 6 ins. .... 20.00 180.00

Thuja occ. wariana (Siberian)

1-yr., 2 1/4-in. rose pots, ..... 18.00 170.00

4 to 6 ins. .... 20.00 180.00

2-yr., TT, 6 to 8 ins. .... 30.00 270.00

3-yr., TT, 6 to 12 ins. .... 37.50 350.00

Thuja occ. woodwardii

1-yr., 2 1/4-in. rose pots, ..... 18.00 170.00

4 to 6 ins. .... 20.00 180.00

2-yr., TT, 6 to 8 ins. .... 30.00 270.00

Complete catalog on request.

HEASLEY'S NURSERIES

247 Freeport Rd. Butler, Pa.

## PFITZER JUNIPER

Rooted cuttings, extra heavy, 10 to 14 ins.,

\$7.00 per 100, \$65.00 per 1000. Also 10,000

canned Evergreen stock, in 10 varieties.

Write if interested.

## SHAW'S GARDENS

U. S. 41 North Henderson, Ky.

## FINE LINERS OF CHOICE

## ORNAMENTALS

See our ad on pages 50 and 51, April 15 issue

and pages 30 and 36 of this issue.

JOHN VERMEULEN & SON, INC.

Neshanic Station, N. J.

## EVERGREEN LINERS AND CUTTINGS

POT-GROWN STOCK

Each, 100 1000

Stock from 2 1/4-in. pots

Arborvitae, American, dark green, .....

1-yr., 6 to 7 ins. .... \$0.26 \$0.24

Arborvitae, pyramidalis, 1-yr.,

6 to 7 ins. .... .26 .24

2-yr., 6 to 9 ins. .... .30 .28

Juniperus pfitzeriana, Armstrong's,

1-yr., 5 to 6 ins. .... .26 .24

Juniperus chinensis pfitzeriana,

## EVERGREENS, Liners—Continued

EVERGREEN LINERS			
	Each	100	1000
<b>BERCKMANS' BIOTA AUREA NANA</b>			
Field-grown, 2-yr.	.....	\$0.35	\$0.30
2-in. pots, 1-yr.	.....	.21	.18½
(Pots delivery now.)			
<b>ARMSTRONG PFITZER JUNIPER</b>			
2-in. pots, 1-yr.	.....	.21	.18½
2-in. pots, 2-yr.	.....	.25	.22½
Field-grown, 3-yr.	.....	.45	.40
<b>HETZ GLAUCOA JUNIPER</b>			
2½-in. pots, 1-yr.	.....	.21	.18½
<b>BURK JUNIPER</b>			
2½-in. pots, 1-yr.	.....	.22½	.20
<b>TAXUS ANDERSONI</b>			
2½-in. pots, 1-yr.	.....	.20	.17½
<b>TAXUS COLUMNARIS</b>			
2½-in. pots, 1-yr.	.....	.20	.17½
<b>TAXUS CUSPIDATA</b>			
2½-in. pots, 1-yr.	.....	.20	.17½
<b>TAXUS HICKSI</b>			
2½-in. pots, 1-yr.	.....	.20	.17½
<b>TAXUS MEDIA</b>			
2½-in. pots, 1-yr.	.....	.20	.17½
<b>TERMS:</b> Cash with order. Free packing.			
300 plants of a variety at 1000 rate.			
50 plants of a variety at 100 rate.			
<b>VOGE NURSERY</b>			
New Lebanon, O.			

## POTTED LINERS

	2½-in. pots.	100	1000
<b>Taxus, Adams, 1-yr.</b>			
	.....	\$15.00	\$170.00
<b>Taxus andersoni, 1-yr.</b>			
	.....	18.00	175.00
<b>Taxus andersoni, 2-yr.</b>			
	.....	24.00	230.00
<b>Taxus browni, 1-yr.</b>			
	.....	18.00	170.00
<b>Taxus browni, 2-yr.</b>			
	.....	24.00	230.00
<b>Taxus capitata, 1-yr.</b>			
	.....	18.00	170.00
<b>Taxus capitata, 2-yr.</b>			
	.....	23.00	220.00
<b>Taxus cuspidata, 1-yr.</b>			
	.....	17.00	160.00
<b>Taxus cuspidata, 2-yr.</b>			
	.....	22.00	210.00
<b>Taxus cuspidata, 3-yr.</b>			
	.....	32.00	300.00
<b>Taxus hicksi, 1-yr.</b>			
	.....	18.00	170.00
<b>Taxus hicksi, 2-yr.</b>			
	.....	23.00	220.00

## EVERGREEN SEEDLINGS

	2-yr.	2.50	12.50
<b>Scotch Pine, 3-6, 2-yr.</b>			
	.....	4.00	20.00
<b>Scotch Pine, 4-8, 2-yr.</b>			
	.....	5.00	25.00

TERMS: No charge for packing. 25 per cent with order, balance C.O.D. 250 of a variety at 1000 rate.

**HEASLEY BROS. NURSERY**

Box 218, R. D. 1 Greensburg, Pa.

## HEAVY ROOTED CUTTINGS

	Per 100	Per 1000
<b>Arborvitae, American, dark green; 6 to 10 ins.</b>		
	.....	\$0.10
<b>Arborvitae, pyramidal, 6 to 10 ins.</b>		
	.....	.10
<b>Arborvitae, globe, 4 to 8 ins.</b>		
	.....	.10
<b>Juniperus horizontalis, 6 to 10 ins.</b>		
	.....	.10
<b>Juniper, Pfitzer, 6 to 10 ins.</b>		
	.....	.11
<b>Juniper, Savin, 6 to 10 ins.</b>		
	.....	.10
<b>Juniper, Von Ehrh, 6 to 10 ins.</b>		
	.....	.11
<b>Juniper, Andorra, 6 to 10 ins.</b>		
	.....	.11
<b>Taxus cuspidata, 6 to 10 ins.</b>		
	.....	.11
<b>Taxus hicksi, 6 to 10 ins.</b>		
	.....	.11
<b>Taxus hunnebelliana, 6 to 10 ins.</b>		
	.....	.13
<b>Taxus capitata, 6 to 8 ins.</b>		
	.....	.13

250 at 1000 rate. Spring delivery. 2 per cent discount, cash with order.

**DE WINTER'S NURSERY**

653 Port Sheldon Rd.

Grandville, Mich.

## ROOTED CUTTINGS AND TRANSPLANTS

Strong, true to type, rooted cuttings of the following:

Taxus varieties: Browni, kelseyi, hicksi, femina, wardi, Hill's dwarf pyramidal, dwarf erecta and cuspidata.

Hill's pyramidal and bothi Arborvitae.

These are large cuttings, hormone treated and radiant heat grown, producing an abundance of strong roots.

\$10.00 per 100 plants.

Write for prices of 2 and 3-yr. transplants of the above varieties.

Free packing for cash with order.

**ARTLEY'S NURSERY**

339 Cherry St. Montoursville, Pa.

## NANDINA DOMESTICA LINERS

	Per 100	Per 1000
<b>2 to 4 ins., 1-yr.</b>		
	.....	\$ 3.50
<b>4 to 6 ins., 1-yr.</b>		
	.....	6.00
<b>6 to 8 ins., 2-yr.</b>		
	.....	10.00
<b>8 to 10 ins., 2-yr.</b>		
	.....	12.50
<b>10 to 15 ins., 2-yr.</b>		
	.....	15.00
<b>2½-in. pots, 1-yr.</b>		
	.....	15.00

Write for liners and finished list.

**GILMORE PLANT & BULB CO., INC.**

Julian, N. C.

## NANDINA PLANTS

3 to 4 ins. high; bed-grown, \$30.00 per 1000.

500 at 1000 rate. Cash.

**KRONE'S FLOWER SHOP & NURSERY**

4221 Grand Ave. Fort Smith, Ark.

## EVERGREEN SEEDLINGS

Blue Spruce, 4 to 12-in. seedlings, sand-grown, 5-6, \$50.00 per 1000. Scotch, auvergne and Austrian Pine, 2-6, seedlings, 1000, \$15.00.

**HENRY FISCHER, ROTTERBURY, MICH.**

**PICEA PUNGENS GLAUCOA HOOPSI**

Strong grafts, \$125.00 per 100.

**FRANKE'S NURSERIES**

Waterford Works, N. J.

## CANADA HEMLOCK

Collected seedlings.

	Per 100	Per 1000
<b>6 to 9-in. seedlings</b>		
	.....	\$ 5.00
<b>9 to 12-in. seedlings</b>		
	.....	8.00
<b>12 to 18-in. seedlings</b>		
	.....	15.00
<b>18 to 24-in. seedlings</b>		
	.....	30.00

These are first-quality, collected Hemlocks, carefully dug and packed in sphagnum moss in ventilated boxes.

Send for complete list of hardy native Ferns, wild flowers, trees, shrubs and Evergreens.

**ISAAC LANGLEY WILLIAMS**

Box AN Exeter, N. H.

## SURPLUS SALE

ON

**BERCKMANS' AUREA NANA**

Heavy rooted cuttings grown in full sun.

4 to 6 ins., \$6.00 per 100, \$50.00 per 1000.

**FLOWERWOOD NURSERY, INC.**

P. O. Box 185 Cairo, Ga.

Phone 2-4021 or write.

## EVERGREENS, B&amp;B

## SPRUCE

400 Colorado Blue  
100 Koater's Blue  
Size 6 to 18 ft.

**BURMAK NURSERY**

95 Hillside Ave. Peekskill, N. Y.

Phone PE 7-4060

**JUNIPERS, PFITZER AND HETZ**

5000 field-grown and sheared.

12 to 15 ins., 50c; 15 to 18 ins., 75c; 18 to 24 ins., \$1.00. You dig them. Row-run.

\$60.00 per 100.

**A. J. BUTTERFIELD, FARMINGTON, MO.**

## EVERGREENS, Miscellaneous

Taxus, flex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.

**Del-Mar-Va Nurseries, Box 3, Lincoln, Del.**

## GARDEN ROOTS

**CHIPMAN'S RED RHUBARB**

The only real Red Rhubarb.

Large, fresh-cut divisions, 30c each.

100 or more, 25c each.

**WY'S GARDENS, East Grand Forks, Minn.**

**CHIPMAN'S CANADA RED RHUBARB**

First-class, freshly cut divisions, \$25.00 per 100. Inquire for large quantity prices.

Can ship immediately.

**C. D. WRIGHT, HAMBURG, IA.**

## GRAPEVINES

	Each	100
<b>BRONZE SCUPPERNON</b>		
3000 2-yr., heavy No. 1	.....	\$0.50
500 3-yr., heavy No. 1	.....	.65

No charge for packing.

**GILMORE PLANT & BULB CO., INC.**

Julian, N. C.

## GROUND COVERS

## MYRTLE

Hardy trailing Myrtle, prepaid, wholesale, bare-rooted prices:

Golden variegated leaf, white, 1 for 50c.

The following, at least 500 leads (100 plants):

Large-leaved blue .....\$7.00

Alpina (reddish purple) ..... 6.00

White ..... 6.00

Mixed, white and blue ..... 5.00

Mixed, Alpina and blue ..... 5.00

"The Blues" (pleasing as a Myrtle can be) ..... 4.00

Vinca Major, large-leaved blue; Texas strain, 1 for 25c.

**GOLDEN ACRE NURSERY**

Shippewa, Ind.

## GROUND COVERS

Per 100

**Ajuga genevensis** .....\$ 5.00

**Ajuga, red-leaved** ..... 5.00

**Ajuga, variegated leaf** ..... 10.00

**Vinca minor, variegated** ..... 30.00

**Euonymus vegetus, 2-yr.** ..... 30.00

**Euonymus vegetus, 3-yr.** ..... 40.00

**Euonymus coloratus erectus, 2-yr.** ..... 30.00

**Euonymus coloratus erectus, 3-yr.** ..... 40.00

**Euonymus Berryhill, 2-yr.** ..... 30.00

**Euonymus Berryhill, 10 to 12 ins., T.** ..... 40.00

**Euonymus Berryhill, 12 to 15 ins., T.** ..... 50.00

Terms: Cash with order, please. No packing charges.

**HOPPERTON NURSERY**

P. O. Box 55 Naperville, Ill.

## VINCA MINOR

\$15.00 per 100; 1000 or more,

\$40.00 per 1000. Cash with order.

**VERONA GARDENS, TED GREVERS**

Route 5 Battle Creek, Mich.

## PACHYSANDRAS

Strong plants, \$50.00 per 1000.

2 per cent discount, cash with order.

**H. C. WAUGH**

Box 41 Gallipolia, O.

## HARDY MYRTLE (VINCA MINOR)

Common Periwinkle.

Heavy canes, freshly dug, 15 to 25 large canes; clumps, \$50.00 per 1000.

Honeysuckle, Hall's halliana, 3-yr., branch-

ed, \$45.00 per 1000.

English Ivy, large-leaved, Scottish strain;

rooted cuttings, \$50.00 per 1000.

Boston or Engelmann's Ivy, \$50.00 per 1000.

Euonymus coloratus, 1-yr., rooted cuttings,

\$57.00 per 1000.

**H. C. WAUGH**

Box 41, Upper River Rd. Gallipolia, O.

Hardy Myrtle (Vinca minor), plants with

20 leads or more and good roots, \$5.00 per

100, \$45.00 per 1000. Pachysandras, sand-

rooted cuttings, \$40.00 per 1000. English Ivy,

sand-rooted cuttings, \$40.00 per 1000. Cash.

Samuel I. Minder, 305 Euclid Ave., Lan-

caster, Pa.

## HARDY PLANTS

**HARDY PERENNIALS, FIELD-GROWN**

Per 100

**Achillea Angel Breath** .....\$8.00

**Alyssum saxatile** ..... 5.00

**Anchusa Dropmore** ..... 5.00

**Aquilegia chrysantha** ..... 7.00

**Aquilegia Mrs. Scott Elliott's** ..... 8.00



## SNYDER'S

## PERENNIAL SPECIALTIES

Strong, blooming-size plants from open field beds, started last spring unless otherwise described.

Priced per 100; 25 at the 100 rate.

## AQUILEGIAS

All long-spurred from finest seeds.  
Blue shades, white centers.....\$3.00  
Chrysantha, soft yellow, long spurs..... 4.00  
McKana Giant Hybs., heavy..... 5.00  
McKana Giant Hybs., lighter grade..... 3.00  
Mrs. Nicholas, blue with white center.  
Ideal substitute for Rocky Mtn. Blue..... 4.00  
Orange and Scarlet shades..... 5.00  
ANEMONE PULSATILLA  
Lilac, 2-yr., \$5.00; 1-yr.....\$3.50  
White Swan, new pure white, 2-yr..... 8.00  
White Swan, 1-yr..... 5.00

Achillea filipendulina, showy yellow.....\$4.00  
Asclepias tuberosa (Butterfly Flwr.)..... 4.00  
Asclepias tuberosa, 1-yr. liners..... 3.00  
Aster alpinus dwarf blue, spring blmg..... 5.00  
Aster alpinus Goliath, larger, taller..... 7.00  
Aubrietia, large-flowered hybrids..... 4.00  
Carnation Grenadin, double pink..... 4.00  
Carnation Grenadin, double scarlet..... 4.00  
Centaurea dealbata, striking rose-pink..... 4.00  
Centaurea montana, cornflower-blue..... 4.00  
CAMPANULA MIEDE (Canterbury Bells)  
Heavy plants, thinly sown in June.  
Calycanthema (Cup-and-Saucer), pink.....\$3.00  
Calycanthema Dean's Imp. Hyb. mixture..... 3.00  
Dwarf bedding, Award of Merit 1956..... 4.00  
Double Mixed, very showy..... 3.00

## DWARF CAMPANULAS

Carpatia alba, all white.....\$4.00  
Carpatia Blue, true stock..... 4.00  
Carpatia Dwf. Hyb., lg. upturned bells..... 4.00  
DELPHINIUMS  
Belladonna Imp. sky-blue, July-sown.....\$3.00  
Bellamosum Imp. deep blue, Aug.-sown..... 3.00  
Chinese alba, white, 30 ins. tall..... 2.00  
Wrexham or Hollyhock strain, all colors..... 6.00  
DELPHINIUM PACIFIC HYBRIDS  
Stocky plants, thinly sown late August.  
Camelard, lav.-double, white bee.....\$5.00  
Galahad, clear white double..... 4.00  
King Arthur, violet dbl., white bee..... 5.00  
Summer Skies, light blue dbl., white bee..... 5.00  
DIANTHUS (HARDY PINKS)  
Allwood, rich colors, neat, compact.....\$4.00  
Deltoides erectus, rich red (Cavarr)..... 4.00  
Little Jack Hybs., dwf., compact..... 4.00  
Plumarius Highland Hybs., large singles..... 4.00  
Plumarius Spring Beauty, dbl., July-sown..... 4.00

## GAILLARDIAS

Burgundy, wine-red, practically all red.....\$4.00  
Goblin, dwf., red and yellow bicolor..... 4.00  
Monarch Strain, giant flws., all colors..... 4.00  
IBERIS (Hardy Evergreen Candytuft)  
Purity, 1-yr. transplanted, bed-grown.....\$8.00  
Purity, rooted cuttings from open beds..... 5.00  
Snowflake, 1-yr. transpl., bed-grown..... 8.00  
Snowflake, rooted cuttings, 1 year in outdoor frames..... 6.00  
Snowflake, rooted cuttings in open beds..... 5.00

Helianthemum mutabile (Rock Rose), evergreen foliage, dainty pink blooms.....\$5.00  
Lavandula Munstead's Dwarf, earlier..... 5.00  
Linum collinum, improved blue Flax..... 4.00  
Linum flavum comp., dwf., yel. Flax..... 4.00  
Lychnis chalcidionica, bright red..... 4.00  
Lycium roseum, shades of pink..... 4.00  
Nepeta mussini, dwarf, blue..... 4.00

## LIATRIS

All "bulbs" sure to bloom this summer.  
Scairosa alba, true, 2-yr., \$5.00; 1-yr.....\$3.50  
Scairosa August Glory, 2-yr., \$5.00; 1-yr..... 3.50  
Scairosa Sept. Glory, 2-yr., \$5.00; 1-yr..... 3.50

## PHLOX SUBULATA

Bushy, well-developed, over 1-yr. bed-grown plants started summer 1956.  
Atropurpurea, carmine-red.....\$8.00  
Atropurpurea, lighter grade..... 5.00  
Crimson Beauty, lively color..... 8.00  
Favorite, silvery pink, large red eye..... 8.00  
Sunrise, fine new salmon-rose..... 8.00  
White Cushion, field diva, with roots..... 5.00  
Wild Rose, wild rose pink..... 8.00

## PHLOX SUBULATA

Many-branched plants from open beds started last August.  
Atropurpurea, carmine-red.....\$4.00  
Emerald Cushion Blue, heavy..... 5.00  
Sampson, dwf. pink; resembles "Vivid"..... 8.00  
White Delight, best white, heavy..... 5.00

## POLYANTHUS (Primula Veris Hybs.)

Colossea Mixed, rates next Gt. Bouquet.....\$5.00  
Giant Bouquet, Award of Merit Strain..... 6.00  
Giant White, vigorous, pure white..... 5.00  
Giant Yellow, rich shades..... 5.00

## PLATYCODONS (Balloon-Flower)

Alpine, new dwarf, deep blue, 12 ins.....\$8.00  
Alpine, lighter grade, sure to bloom..... 5.00  
Double Blue, large flowers, 2-yr..... 5.00  
Double Pink Hybs., mostly dbl. pink..... 5.00  
Double White, large white double, 2-yr..... 6.00  
Shell Pink, akl., deeper veins, 2-yr..... 5.00  
Marisel, dwarfed, deep blue, akl. 2-yr..... 5.00  
Dbl. Blue, Dbl. Pink Hybrids, Shell-Pink and marisel, 1-yr. stock..... 3.50

## PYRETHRUM (Painted Daisies)

Stocky plants, thinly sown late July.  
Choice Double, mixed colors.....\$4.00  
(Continued in next column)

(Continued from previous column)

Robinson's Dark Crimson, all red..... 4.00  
Robinson's Gt. Hybs., pk. and red shades..... 4.00  
RUDBECKIA WHITE LUSTRE HYBRIDS  
A new strain of white Rudbeckias. Strikingly attractive from the first ray-like white petals to the gleaming old bronze cone as the flower matures.  
True white stock, 1-yr.....\$7.00

## SHASTA DAISIES

Alaska, a better strain, large and thickly petaled, grand for cutting.....\$4.00  
The Prince, 5-in. flowers, stiff stems..... 5.00

Rose Campton, 2-ft. red flowers.....\$4.00  
Saponaria cymoides spl., pink trailer..... 4.00  
Statice dumosa, lavender and silver..... 4.00  
Statice latifolia, 2-yr., \$5.00; 1-yr..... 3.50  
Veronica spicata, blue, about 18 ins..... 4.00

## VIOLAS

Bushy, true to color, thinly sown.  
Arkwright Ruby, ruby-red, deeper center.....\$3.00  
Blue Perfection, large, clear med. blue..... 3.00  
Georgia Peach, slightly ruffled..... 4.00  
Large Flw. Scotch, all colors..... 3.00  
Scottish Yellow, pure golden yellow..... 4.00  
White Perfection, large pure white..... 3.00

## NEW VIOLAS

Larger flowered Violas in new shades.  
Stocky plants, from field beds, thinly sown in September. In bud.  
Dorothy, mixture of newest shades.....\$5.00  
Sandra, bronze and terra-cotta shades..... 5.00  
Cash with order, please.  
E. J. SNYDER, WEST MILTON, O.

## HELLEBORUS

## HELLEBORUS NIGER

(Christmas Rose)  
3-yr. transplants, blooming size.  
Suitable to put up for sales on roadside stands and garden centers.  
\$50.00 per 100 \$45.00 per 1000.  
C. HOOGENDOORN  
Turner Rd. Newport, R. I.

## HEMEROCALLIS

Hardy Hemerocallis.  
Write for wholesale list.  
Ortonville Nurseries, Ortonville, Mich.

Small Ads Do Great Things in the American Nurseryman Classified Section.

## HOLLY

## HOLLY, NAMED VARIETIES

All 1-yr. bed-grown liners of exceptional quality. Very heavy root system. Ideal for field planting.  
Aquifolium: J. G. Esson, pyramidalis compacta, Royal Purple, Zimmerman No. 1 and No. 2.  
Opaca: Cardinal, Excelior, M. Farage, Matawan, Mr. Heavy Berry, M. Muller's No. 1 and No. 2, Old Heavy Berry, Rumson and Xanthocarpa.  
Royal Purple and OHB, \$90.00 per 100.  
All other varieties, \$60.00 per 100.  
JAMES S. WELLS NURSERY  
P. O. Box 141 Red Bank, N. J.

## ILEX OPACA (AMERICAN HOLLY)

Croonenburg, 2½-in. pots.....Per 100  
Fosteri, 3-in. pots.....20.00  
Howardi, 2½-in. pots.....20.00  
Savannah, 2½-in. pots.....20.00  
Taber No. 3, 2½-in. pots.....20.00  
ILEX CRENATA (ORIENTAL HOLLY)  
Helleri, 2½-in. pots.....17.50  
Hetzi, 2½-in. pots.....17.50  
STEPHENS NURSERIES  
Semmes, Ala.

## ILEX OPACA

## SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS  
OF LINING-OUT STOCK  
Write for our price list.  
HOLLY HAVEN, INC.  
Box 75 New Lisbon, N. J.

## ILEX CRENATA ROTUNDIFOLIA

8 to 10 ins.....\$c  
10 to 15 ins.....12c  
2-yr., open lath beds. All are green.  
B. F. PONDER  
308 6th Ave., S. Lanett, Ala.

## MAY WE QUOTE YOU ON OUR

## BETTER OREGON HOLIES?

Skimima Japonica, general nursery stock.  
ALFRED TEUFEL, WHOLESALE GROWER  
11414 N.W. Cornell Rd. Portland, Ore.

## HOLLY

American, English, Chinese.  
TARA NURSERY  
County Line Rd. and Simma St.,  
Somerton, Philadelphia 16, Pa.

## ILEX CRENATA HELLERI

Excellent plants, 2½-in. pots.....Per 100  
\$17.50  
COTTAGE HILL NURSERY  
4000 Japonica Lane Mobile, Ala.

FINE LINERS OF HARDY HOLLY  
See our ad on pages 50 and 51, April 15 issue  
and pages 30 and 36 of this issue.  
JOHN VERMEULEN & SON, INC.  
Neshanic Station, N. J.

## HONEYSUCKLES

## HONEYSUCKLES

Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants, 3, 4, to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone OR 2-4612.  
ROBINSON NURSERY CO., Greenville, Ga.

## HALL'S HONEYSUCKLE

Good plants, well packed, \$20.00 per 1000.  
MOUNTVILLE NURSERIES  
Mountville, Ga.

## IVIES

## BALTIC IVY

Hardest Ivy. Fine for wall or ground cover. True stock. Well-rooted plants.

Rooted cuttings.....Per 100 Per 1000  
2-in. pots.....\$ 7.00 \$ 65.00  
2-yr., field-grown.....12.50 115.00  
30.00 325.00

## NEW THORNDALE IVY

2½-in. pots.....\$25.00 per 100  
Myrtle, Bowles, 2-in. pots..... 12.00 per 100  
Euonymus kewensis, 2-in. pots..... 20.00 per 100

## EUONYMUS VEGETUS

2-in. pots, \$12.00 per 100, \$110.00 per 1000.  
2-yr., field-grown, \$35.00 per 100.

## STRATFORD GARDENS

Russell Breece, M. R. 9, Delaware, O.

## ENGLISH IVY

Good rooted plants from beds, \$40.00 per 1000.  
MOUNTVILLE NURSERIES  
Mountville, Ga.

## ENGLISH IVY

Large-leaved, Boston and climbing root, rooted cuttings, any quantity, \$50.00 per 1000.  
IVY DALE NURSERY  
R. R. 1 Gallipolis, O.

## LAWN GRASS AND SEED

## ZOYSIA LAWN GRASS SOD

New low wholesale prices on Zoysia lawn grass sod. Meyer Z-52, 75c per sq. yd.; Emerald, \$1.25 per yd. F.O.B. in truckload lots. Bare-root turf, shipped at \$1.50 and \$2.00 per yd. Zoysia makes a dense, wear-resistant turf that chokes out weeds and crab grass. Zoysia Matrella, hybrid Bermudaa and Centipede also at low prices. Write for complete information.

## BECK'S ZOYSIA CO.

806 N. College St. Auburn, Ala.

## CERTIFIED MEYER Z-52 ZOYSIA GRASS

Producers of Meyer Z-52 Zoysia.  
\$35.00 per 1000, 2-in. plugs.  
100 plugs trial order.  
parcel post prepaid, \$5.00.  
50-plug flats available for profitable retail display sales.  
MIAMI NURSERY CO.  
Corner of State Rts. 25 and 71  
Tipp City, O.

Lawn Grass, Meyer (Z-52) Zoysia, Emerald Zoysia, Zoysia Matrella and Tifton 57 (Tiflawn), Tifton 127 (Tiffine), Tifton 328 (Tifgreen). Wholesale prices, any quantity. Sample package, enough to plant 1500 sq. ft., \$6.00 each, prepaid. Specify type desired. Planting instructions included. Send check with order. Merry Grass Nursery, Dept. C, Box 2176, Spring Hill Sta., Mobile, Ala. Phone GA 6-1775.

## LINING-OUT STOCK

## POTTED LINERS READY FOR

## IMMEDIATE SHIPMENT

Name	Pot size	Per 1000
Berckmans' Golden		
Arborvitae	2½-in.	\$225.00
Baker Arborvitae	2½-in.	150.00
Baker Arborvitae	2½-in.	175.00
Bonita Arborvitae	2½-in.	150.00
Bonita Arborvitae	2½-in.	175.00
Bluecone Arborvitae	2½-in.	175.00
Excelsa Arborvitae	2½-in.	175.00
Upright Bonita Arborvitae	2½-in.	150.00
Pfitzer Juniper	2½-in.	175.00
Abelia grandiflora	2½-in.	120.00
Euonymus japonicus	2½-in.	120.00
Euonymus patens	2½-in.	150.00
Hypericum moserianum	2½-in.	150.00
Cherry Laurel	2-in.	100.00
Ligustrum lucidum (Waxleaf)	2½-in.	150.00
Lonicera purpurea (Honeysuckle)	2½-in.	120.00
Nandinas	2½-in.	100.00
Nandinas	3-in.	180.00
Pyracantha lalandi	2½-in.	120.00
Teucrium chamaedrys	2-in.	100.00
Lonicera yunnanensis (Honeysuckle)	2-in.	120.00

## ROOTED CUTTINGS READY FOR

## IMMEDIATE SHIPMENT

Upright Bonita Arborvitae.....\$80.00  
Excelsa Arborvitae..... 80.00  
Juniperus hezai glauca..... 80.00  
Pyracantha lalandi..... 60.00  
BAKER BROS. NURSERY  
P. O. Box 828 Fort Worth, Tex.  
Phone TErmiNal 4-2222

## LINING-OUT STOCK—Continued

GRAFTED STOCK BEDDED OUT  
IN THE OPEN FOR 1 YEAR.

	Per 100
Acer pal. atropurpureum	\$90.00
Cornus florida flore-plena	60.00
Cornus florida rubra	60.00
Cornus florida rubra Prosser	80.00
Hamamelis mollis	60.00
Magnolia, Waterlily	90.00
Magnolia stellata	90.00
Magnolia stellata rubra	90.00
Magnolia soulangeana nigra	90.00
Retinospora obtusa crispal	75.00
Viburnum carlesii	65.00
Viburnum burkwoodii	65.00
Malus Almey	Per 100
Kwanan and Cherry	\$20.00

IMPORT FROM HOLLAND  
IN THE SPRING.

	Per 100
Fagus riversi, 18 to 24 ins.	\$200.00
Fagus sylv. purp.-pendula, 18 to 24 ins.	250.00

**POT-GROWN GRAFTS, MAY SHIPMENT.**  
Understocks are potted up during the early spring, carried over outside in frames during the summer, then grafted during the winter which furnishes the best results for planting.

	Per 100
Acer pal. atropurpureum	\$75.00
Acer dissectum	75.00
Acer dissectum atropurpureum	75.00
Carpinus betulus fastigiata	60.00
Cornus florida rubra	50.00
Cornus florida rubra Prosser	80.00
Cornus florida pendula	60.00
Cornus florida weichi var.	65.00
Cornus florida flore-plena	60.00
Cornus florida rubra, root grafts	25.00
Cornus kousa chinensis	60.00
Cornus kousa speciosa	60.00
Hamamelis mollis	50.00
Fagus sylvatica riversi	60.00
Fagus sylvatica pendula	60.00
Fagus sylvatica heterophylla	60.00
Fagus sylvatica fastigiata	60.00
Fagus sylvatica tricolor	75.00
Magnolia stellata	75.00
Magnolia stellata rubra	75.00
Magnolia stellata Waterlily	75.00
Magnolia parviflora	75.00
Magnolia yulan	75.00
Magnolia cordata	75.00
Pinus strobus fastigiata	60.00
Pinus parviflora glauca	60.00
Pinus cembra	60.00
Retinospora obtusa crispal	50.00
Viburnum carlesii	50.00
Viburnum burkwoodii	50.00

Special prices on large quantities.  
VERKADE'S NURSERIES, WAYNE, N. J.

## LINING-OUT STOCK

	Each, 100	1000
Acer palmatum atropurpureum (Red Japanese Maple), 12 to 18 ins., strong 2-yr. grafts	\$1.75	\$1.50
Cornus florida rubra (red-flowering Dogwood), 1-yr. strong grafts, 18 to 24 ins.	.75	.70
Cotoneaster divaricata, 2-yr. transplants, branched, 12 to 18 ins.	.30	.25
Exochorda wilsoni (Pearlbush), 2-yr. grafts, 18 to 24 ins., from field rows	.75	.60
Forsythia Spring Glory, 1-yr. transplants, softwood cuttings, 18 to 24 ins., well-branched, mail order size	.18	.15
Juniperus hetzi, 2-yr. transplants	.40	.35
Pachistima canbyi, 2-yr. transplants	.50	.45
Prunus tomentosa (Nanking Cherry), strong 1-yr. seedlings	.10	.07½
Pseudotsuga taxifolia glauca (Blue Douglas Fir), 4-yr. transplants	.40	.35
Taxus capitata, strong 2-yr. selected seedlings, 4 to 6 ins.	.15	.12½
Taxus thayerae, 2-yr. transplants	.45	.40
Viburnum carlesii, 2-yr. seedlings, 4 to 6 ins.	.15	.12½
Viburnum carlesii, 2-yr. seedlings, 6 to 8 ins.	.20	.17½
Viburnum carlesii, 2-yr. seedlings, 8 to 12 ins.	.30	.25
Viburnum tomentosum (true), 1-yr. transplants, softwood cuttings	.25	.20
Viburnum wrightii, 2-yr. grafts, field rows, 18 ins.	.75	.60

C. HOOGENDOORN NURSERIES  
Turner Rd. Newport, R. I.

## POTTED LINERS

5,200 Euonymus patens (S-leaf), 2½-in. pots	\$0.10
4,500 Euonymus radicans erectus, 2½-in. pots	.11
7,500 Euonymus radicans (S-yr.), 2½-in. pots	.18
11,000 Spiraea froebelii, 2½-in. pots	.11
3,750 Euonymus fortunei erectus, 2½-in. pots	.22
3,000 Euonymus radicans erectus, 2½-in. pots	.24
1,200 Euonymus patens, 2½-in. pots	.20
7,000 Euonymus patens (S-leaf), 2½-in. pots	.22

BORK NURSERY  
Onarga, Ill.

## LINING-OUT STOCK

No transplanting risk with this pot-grown stock, with good tops and well-established roots. Ready for field or container planting.

Berberis mentenensis	\$0.18
Cotoneaster pannosa	.22
Euonymus Newport	.18
Euonymus japonicus	.16
Euonymus japonicus microphyllus	.18
Euonymus japonicus Goldspot	.20
Euonymus radicans coloratus	.18
Euonymus radicans, upright (Sarcocoe)	.18
Euonymus radicans minimus	.20
Hedera helix	.15
Hedera helix albo-variegata	.18
Jasminum floridum	.16
Ligustrum Vicary Golden	.15
Lonicera purpurea	.18
Lonicera heckrotti	.18
Lonicera aureo-reticulata	.20
Lonicera yunnanensis	.16
Pyracantha lalandi	.16
Pyracantha wyatti	.18
Pyracantha pauciflora	.18
Santolina chamaecyparissus	.15
Viburnum rhytidophyllum	.25
Biota orientalis aurea nana	.20
Biota orientalis bonita, upright	.18
Biota orientalis excelsa	.18
Juniperus pfitzeriana	.18
Juniperus pfitzeriana plumosa	.20
Juniperus hetzi	.16
Juniper, Andorra	.16
Juniper, Savin	.16
Juniper, Savin on Ekhon	.20
Juniperus scopulorum Blue Star	.20
Juniperus squamata expansa	.25

Priced per 100. Minimum 25 of one kind.  
No packing charge for cash with order.  
KENYONS NURSERY, DOVER, OKLA.

FIELD-GROWN  
LINING-OUT STOCK

	Each, 100	1000	5000 to 15,000
Andorra Juniper, 1-yr., 6 to 12 ins.	\$0.17½	\$0.15	\$0.12½
Ashford Juniper, 1-yr., 6 to 12 ins.	.17½	.15	.12½
Conferta Juniper, 1-yr., 6 to 12 ins.	.17½	.15	.12½
Euonymus japonicus, 1-yr., 6 to 12 ins.	.17½	.15	.12½
Fastigiata Juniper, 1-yr., 6 to 12 ins.	.17½	.15	.12½
Greek Juniper, 1-yr., 6 to 12 ins.	.17½	.15	.12½
Hetz Juniper, 1-yr., 6 to 12 ins.	.17½	.15	.12½
Irish Juniper, 1-yr., 6 to 12 ins.	.20	.17½	.15
Koster Juniper, 1-yr., 6 to 12 ins.	.27½	.25	.23½
Pfitzer Juniper, 1-yr., 6 to 12 ins.	.22½	.20	.17½
Pfitzer Jun., compacta (Owens), 1-yr., 6 to 12 ins.	.22½	.20	.17½
Savin Juniper, 1-yr., 6 to 12 ins.	.17½	.15	.12½

50 or more plants at 100 rate.  
300 or more plants at 1000 rate.  
1000 or more plants at 5000 rate.  
Please order in multiples of 25!  
NAUGHER'S packing is free when cash, check or money order accompanies order.  
You'll like NAUGHER'S quality!

NURSERY  
Chase, Alabama

	Per 100	Per 1000
Blue Hets Juniper, 6 to 8 ins., bare-root	\$0.06	
Pfitzer Juniper, 6 to 8 ins., bare-root, 2-yr.	.08	
Von Eickh Juniper, 6 to 8 ins., bands, bare-root	.14½	
Spreading Jap. Yew, 6 to 8 ins., bands	.20	
DECIDUOUS, BARE-ROOT		
Blue Spiraea (Caryopteris), 4 to 6 ins.	.04	
Golden Ninebark (Physocarpus), 4 to 6 ins.	.04	
Forsythia Spring Glory, 6 to 10 ins.	.04	
Honeysuckle vine, heckrotti or Gold Flame, everblooming, 6 to 10 ins.	.06	
Privet, Chinese, Wayside Gardens strain; 6 to 12 ins.	.04	
Privet, Regals, 6 to 10 ins.	.04	

## BROADLEAFS

Euonymus carlesii, 6 to 10 ins.	.04
Euonymus patens Flagpole, small-leaved; 6 to 10 ins.	.04
Euonymus patens, large-leaved; 6 to 10 ins.	.04
Euonymus patens Newport, medium-leaved; 6 to 10 ins.	.04
Euonymus patens Rosehill, medium-leaved; 6 to 10 ins.	.04
Honeysuckle vine Gold Net, variegated-leaf; 5 to 6 ins.	.06
Pyracantha lalandi, 5 to 6 ins.	.05
Pyracantha Kanan, 5 to 6 ins., hardy in Iowa	.08
Less than 300 total order, add 2c per plant.	

McNINCH GREENHOUSES  
St. Joseph, Mo.

FINER LINERS OF CHOICE  
ORNAMENTALS

See our ad on pages 50 and 51, April 15 issue and pages 30 and 36 of this issue.  
JOHN VERMEULEN & SON, INC.  
Neshanic Station 2, N. J.

## ROOTED CUTTINGS FROM SAND

	100	1000
Ilex rotundifolia	\$ 9.00	\$ 80.00
Ilex hetzi	11.00	100.00
Juniperus hetzi	11.00	100.00
Taxus andersoni	11.00	100.00
Taxus Adams capitata	15.00	125.00
Taxus cusp. capitata leaders	15.00	125.00
Taxus browni	11.00	100.00
Taxus brevifolia	15.00	125.00
Taxus cuspidata	10.00	80.00
Taxus hicksii	10.00	80.00
Taxus cuspidata comp.	11.00	100.00
Taxus hatfieldi	11.00	100.00
Taxus hunnewelliana	11.00	100.00
Taxus ovata	11.00	100.00
Taxus intermedia	11.00	100.00
Taxus vermeuleni	11.00	100.00
Taxus kelseyi	11.00	100.00
Taxus densiflora	15.00	125.00
Taxus thayerae	11.00	100.00
Taxus Halloran	15.00	125.00
Taxus henryi	15.00	125.00
Taxus wardi	15.00	125.00

1-YEAR OPEN BEDDED  
Ilex convexa \$20.00 \$180.00  
Ilex rotundifolia 20.00 180.00  
Ilex hetzi 20.00 180.00  
Taxus cuspidata 17.50 150.00  
Taxus browni 17.50 150.00  
Taxus hatfieldi 17.50 150.00  
Taxus intermedia 17.50 150.00  
Taxus vermeuleni 17.50 150.00  
Taxus hicksii 17.50 150.00  
Full list of liners on request. Special prices on large orders.

VERKADE'S NURSERIES, WAYNE, N. J.

## GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2½-in. pots, grown in open beds, under field conditions and ready for field planting.

	Per 100
Ilex cornuta burfordi, 8 to 10 ins.	\$12.00
Ilex cornuta burfordi, 4 to 6 ins.	10.00
Ilex cornuta femina, 8 to 10 ins.	12.00
Ilex opaca femina (American Holly), 8 to 10 ins.	25.00
Ilex opaca femina, 4 to 6 ins.	20.00
Ilex opaca howardi, 8 to 10 ins.	16.00
Ilex crenata rotundifolia, 8 to 10 ins.	12.00
Ilex crenata rotundifolia, 4 to 6 ins.	10.00
Aucuba japonica, 4 to 6 ins.	15.00
Buxus harlandi, 4 to 6 ins.	10.00

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost, 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

## EVERGREEN NURSERIES

Poplar Pike  
Germantown, Tenn.

**POT-GROWN LINING-OUT STOCK**  
All potted liners listed are 2½-in. old, grown in pots. Each plant individually wrapped and shipped in heavy cartons. No order accepted for less than 100 plants.

	Per 100	Per 1000
JUNIPERUS CHIN. PFITZERIANA		
2½-in. pots	\$16.00	\$150.00
JUNIPERUS GLAUCA HETZI		
2½-in. pots	16.00	150.00
JUNIPERUS SABINA VON EKHON		
2½-in. pots	16.00	150.00
EUONYMUS JAPONICUS		
2½-in. pots	14.00	125.00
LAVANDULA VERA		
2½-in. pots	12.00	100.00
BIOTA ORIENTALIS PYRAMIDALIS		
2½-in. pots	12.00	100.00
NANDINA DOMESTICA		
2½-in. pots	14.00	125.00
BERBERIS THUN. ATROPURPUREA		
2½-in. pots	12.00	100.00
EMIL R. BRESSER		
Florist and Nurseryman		
P. O. Box 973	Muskogee, Okla.	

## ROOTED CUTTINGS FROM SAND

	Ready after May 15	Per 100	Per 1000
25,000 Taxus cuspidata	\$ 9.00	\$ 80.00	
10,000 Taxus capitata, leaders	9.00	80.00	
3,000 Taxus capitata, leaders	9.00	80.00	
3,500 Taxus mooni	9.00	80.00	
3,000 Taxus henryi	9.00	80.00	
2,000 Juniperus hetzi	9.00	80.00	
1-YR. OPEN BEDDED			
15,000 Taxus cuspidata	15.00	140.00	
7,000 Taxus capitata, leaders	15.00	140.00	
2,000 Taxus hicksii	15.00	140.00	
1,000 Taxus mooni	15.00	140.00	
6,000 Taxus capitata, leaders	22.00	200.00	

Terms: Please send cash with order and packing free.

LAURIENTE NURSERIES, INC.

464 Main St. Agawam, Mass.

## LINERS OF THE BETTER KINDS

Write for price list.

GULF STREAM NURSERY, INC.

Wachapreague, Va.

## FIELD-GROWN LINERS

All twice transplanted.	Per 100
Golden Juniper, 9 to 12 ins. XX	\$40.00
Thuja, woodwardi, 9 to 12 ins. XX	40.00
elegantissima, 8 to 10 ins. XX	40.00
Ilex, rotundifolia, 9 to 12 ins. XX	45.00
convexa, 8 to 10 ins. XX	55.00
TAXUS, 3 TIMES TRANSPLANTED	
European White Birch (seedlings)	
3 to 4 ft.	30.00
4 to 5 ft.	45.00
5 to 6 ft.	70.00
Cash with order earns free packing.	
DAMASCUS NURSERIES	
Damascus, O.	

## MAGNOLIAS

Magnolia grandiflora, 4 to 8 ins. high; shipped in 2 1/2-in. pots, \$15.00 per 100, \$140.00 per 1000 here, you pick up. Can furnish several thousand 2 1/2-in. Magnolias, 2 to 4 ins. high, \$110.00 per 1000 here, you pick up. If you have room in greenhouse, these should make a spurt of growth of about 12 ins. hurriedly. Have seedlings just coming up (January 22), pot in fine order in two weeks, \$35.00 per 1000, \$4.50 per 100. Shipped in plastic bags, air parcel post, you pay postage. Others in cans and pots, bushel baskets, up to about 8 ft. Cash with order earns 2 per cent discount; otherwise 25 per cent cash with order and balance before shipment.

Harwell Nursery, Van Buren, Ark.

## MAGNOLIAS

SOULANGEANA AND NIGRA  
12 to 18 ins., \$25.00 per 100.  
Good dormant stock ready to line out  
FLOWERWOOD NURSERY, INC.  
Loxley, Ala.

## MAPLES

NORWAY MAPLE  
Straight trunks, Fine heads. Very fibrous roots.

	10-49	50-250
6 to 8 ft.	\$ 3.00	\$2.50
8 to 10 ft.	4.40	3.50
9 to 11 ft.	1 1/4 to 1 1/2-in.	6.00
10 to 12 ft.	1 1/4 to 1 1/2-in.	8.80
11 to 13 ft.	1 1/4 to 2-in.	11.00

PRINCETON NURSERIES

Princeton, N. J.

## COLLECTED ACER

RUBRUM AND SACCHARUM  
from whips to 4-in. caliper.  
CURTIS NURSERIES, INC.  
Callicoon, N. Y.

## PACHYSANDRAS

PACHYSANDRAS  
1-yr.-old, large-frame plants.  
Satisfaction guaranteed.

Large quantity,  
\$5.50 per 100, \$43.00 per 1000.  
\$40.00 per 5000.

BRUNDAGE &amp; GUTHRIE

123 Franklin St.

Tarrytown, N. Y.

## PACHYSANDRA TERMINALIS

Per 100 Per 1000  
1-yr. plants ..... \$ 5.00 \$42.50  
2 1/2-in. pot-grown plants ..... 10.50 95.00  
HENSEN BROS. NURSERIES, INC.  
1268 Montgomery Ave. Narberth, Pa.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock. \$45.00 per 1000; \$42.50 per 1000 for 5000 or more, including good packing.  
Peekskill Nursery, Shrub Oak, N. Y.

## PACHYSANDRA TERMINALIS

1-yr., field-grown, \$65.00 per 1000.  
Rooted cuttings \$4.25 per 100.  
HILLCREST GREENHOUSES  
Box 468 Franklin, Pa.

## PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.  
DUNWOODIE NURSERIES  
6 Smart Ave. Yonkers, N. Y.

## PACHYSANDRAS

Out of 2-in. pots, \$12.00 per 100, \$100.00 per 1000. F.O.B. Elizabeth, N. J.  
DELAWARE VALLEY NURSERY  
948 N. Broad St. Elizabeth, N. J.

## PEONIES

TREE AND FERN-LEAVED PEONIES  
SPECIES AND CUT-FLOWER PEONIES.  
ATHA GARDENS, WEST LIBERTY, O.

## PHLOX

## PHLOX SUBULATA

Healthy, undivided, field-grown clumps available now. 15 varieties to choose from, \$12.00 per 100. When buying from "Walters" you not only get the best in quality, but our experience in handling and shipping "Moss Phlox" is actually a free bonus on your purchase. "America's largest grower of Moss Phlox."

WALTERS GARDENS

Route 2 Zeeland, Mich.

PHLOX SUBULATA  
(Creeping Phlox)

An excellent choice of varieties.  
Freshly dug. Prompt shipment prepaid by us.

Alba, pure white  
Astro, deep orchid-rose  
Blue Hills, attractive medium blue  
Butterfly, lilac bluish, showy purple eye  
Crimson Beauty, brilliant cyclamen-red  
Sensation, bright pink with red eyes  
Red Wing, large glowing red flowers

Transplants, \$9.50 per 100, \$90.00 per 1000.  
Liners, \$5.00 per 100, \$45.00 per 1000, prepaid.

250 or more of one variety at 1000 rate.  
All transportation charges prepaid by us.  
Careful packing and each variety labeled.  
Terms: Cash with order.

## TANGLEWOOD FARM

P. O. Box 336-N Phone 1060 Clinton, S. C.

## PIERIS

## PIERIS JAPONICA

SPRING	CHOICE LINERS	1958
8 to 12 ins., field row, 3-yr., TTT	100	\$375
6 to 8 ins., peat bed, 2-yr., TT	20	275
4 to 6 ins., peat bed, 2-yr., TT	20	175

## ECKHART NURSERIES

16 Toppa Blvd. Newport, R. I.

## PIERIS JAPONICA (ANDROMEDA)

Per 100 Per 1000  
1-yr., T, 2 to 3 ins. .... \$8.00 \$75.00  
PLANE VIEW NURSERY  
West Main Rd. Newport, R. I.

## PRIVET

Thousands of Amur River North Privet.

	Per 100	Per 1000
18 to 24 ins.	\$3.00	\$25.00
2 to 3 ft.	4.00	30.00
3 to 4 ft.	5.00	40.00

Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

## PYRACANTHAS

## PYRACANTHA LALANDI

Per 100  
2 1/2-in. pots (6 to 12 ins.) ..... \$15.00  
COTTAGE HILL NURSERY  
4000 Japonica Lane Mobile, Ala.

## RHODODENDRONS

## STRONG CUTTINGS

Now rooted and flatted 30 to a large flat.  
Will grow on and be ready for shipment as first-class liners May 1.

Group 1: Album elegans, cat. grandiflorum, roseum superbum, roseum elegans.  
Group 2: Cal. album, candidissimum, English roseum, luciferum, purpureum elegans.  
Group 3: America, Cynthia, caractacus, Chas. Bagley, F. D. Godman, Ignatius Sargent, Kate Waterer, Prof. Bettex, Prof. Rutgers.

Group 1, \$65.00 per 100.  
Group 2, \$80.00 per 100.  
Group 3, \$100.00 per 100.  
Ask for our new list of Rhododendrons, Azaleas and Ilex.

JAMES S. WELLS NURSERY, INC.

P. O. Box 141 Red Bank, N. J.

## For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

## At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the June 15 issue to reach us by May 23.

Forms for the July 1 issue will close June 6.

## AMERICAN NURSERYMAN

343 S. Dearborn St.

CHICAGO 4, ILL.

## RHODODENDRONS

Strong 1-yr. grafts. Heavy root system.

## RED

America, Caractacus, Dr. Dreeselhuys, Dr. V. H. Rutgers, Mrs. P. den Ouden, Van Weerden Poelman.

## PURPLE-LAVENDER

Catawb. grandiflorum, Everestianum, Ign. Sargent, Lee's Dark Purple, roseum elegans.

## WHITE

Catawb. album, Mme. Carvalho.

All varieties, \$1.25. Excellent material.

## RED NOVELTIES

El Alamein, Kluis Sensation, Gen. Eisenhower, Spitfire.

\$1.35 each. Heavy root ball.

Also limited quantity of

Picea pungens glauca HOOPSI, grafts \$1.25.

Acer palm. atropurpureum, grafts, 75c.

F.O.B. N. Y. Packing at cost.

HOLLAND NURSERY PRODUCTS

P. O. Box 339 New York 10, N. Y.

## RHODODENDRONS

Unnamed hybrids of hardy ponticum-catawbiense parentage. Good foliage. Largely in pastel shades.

Each  
12 to 15 ins., bushy, with buds, B&B, \$1.50  
10 to 12 ins., bushy, with buds, B&B, 1.20  
(Without buds, 50 per cent less.)

Rhododendrons for growing on or over the counter sale, with firm, lightweight ball. Red-grown, XXX transplanted.

4 to 6 ins., per crate of 50 units, ..... \$12.50  
6 to 8 ins., per crate of 50 units, ..... 15.00

RICHARD P. RESSEL, MULINO, ORE.

## ALL RED 1-YR. GRAFTS

Imported by air, carefully re-established with a full root system. Ready May 1, 1958.

AMERICA, DR. DRESELHUYS, E. S. RAND, IGNATIUS SARGENT, JOHN WALTER, NOVA ZEMBLA.

\$125.00 per 100.

Ask for our new list.

J. S. WELLS NURSERY, INC.

P. O. Box 141 Red Bank, N. J.

## RHODODENDRONS

## HYBRID RHODODENDRONS

Landscape sizes

Different colors.

## PARMENTIER'S ROSES

Grady St. Bayport, L. I., N. Y.  
Phone Bayport 8-0811

100,000 hybrid Rhododendrons. Liners, landscape named varieties of 500 pink, purple, lavender, 55c; red, 70c up. Yellow, blue, black, fragrant. Kordus Nursery, Deer Park Ave., R. 4, Box 152, Huntington, N. Y.

## RHODODENDRON MAXIMUM

Nursery-grown and collected. 2 to 7 ft. high. Well-shaped, symmetrical plants.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

## ROSEBUSHES

## MINIATURE ROSES

Beautiful little darlings, like miniature Hybrid Teas; seldom over 10 ins. tall. The plants we sell are own-root from 2 1/2-in. pots.

Variety Per 10 Per 100  
Centennial Miss (pat. 1301), ..... \$5.00 \$45.00  
Oakington Ruby, red ..... 4.00 35.00  
Pink Joy (pat. 1378), ..... 4.50 40.00  
Rosa Rouletti, pink ..... 4.00 35.00  
Frosty (pat. 1412), white, ..... 5.00 45.00  
Pixie (pat. 408), white, ..... 4.50 40.00  
Jackie, yellow, ..... 5.00 45.00

SPRING HILL NURSERIES CO.

Dept. AN-2 Tipp City, O.

## POTTED ROSES

20,000 field-grown (our own).

Standard varieties, 85c each.

Patented varieties, \$1.00 to \$1.25 each, 100 lots.

Come and get them (any amount) or let us make arrangements for trucking (1200 to load). All plants are in frames and growing. Each plant has color tag. Ideal for roadside market or nursery yard.

DANEGGER'S HI-WAY NURSERY, INC.

Box 336 Milford, Del.

## THE SEASON'S BEST DEAL

See for yourself

by

sending for our 1957-58 trade list.

WE STILL OFFER YOU A CHOICE OF

BARE-ROOT AND PREPACKAGED,

PATENT AND STANDARD ROSES.

NEW LONDON ROSES

"The Rose Nursery"

P. O. Box 876 Overton, Tex.

## WESTERN-GROWN ROSEBUSHES

Harvest time has started now. Full assortment of varieties and grades, also booking orders for individually wrapped with colored pictures for counter sales.

Write for descriptive price list with full assortment of Rosebushes, shrubs, fruit trees and vines.

HOME NURSERY GREENHOUSES, INC.

Lock Box 181 Edwardsville, Ill.

## POTTED ROSES

A large selection of Hybrid Teas,

Floribundas and Climbers.

Circular and prices mailed on request.

D &amp; D ROSE GARDENS

Eatontown, N. J.



## ROSEBUSHES—Continued

**ROSEBUSHES**  
A WIDE ASSORTMENT OF REASONABLY  
PRICED HIGH-QUALITY ROSEBUSHES  
WITH FAST COURTEOUS SERVICE  
IS WHAT YOU GET AT  
**MARTIN'S ROSE NURSERY**  
P. O. Box 165 Arp, Tex.  
Phone UL-92191  
(A copy of our 1957-58 price list  
will be mailed to you upon request.)

## SEEDS

**CHINESE ELM SEED**  
NEW CROP.  
READY FOR IMMEDIATE DELIVERY.  
1 to 5 lbs. .... \$1.40 per lb.  
6 to 10 lbs. .... 1.25 per lb.  
Over 10 lbs. .... 1.10 per lb.  
This seed tests very well.  
A high percentage will germinate.  
**McCANCE NURSERIES**  
Route 3 North Platte, Neb.

**EVERGREEN SEEDS. FREE LIST.**  
Available in 50c tr. pkts. or by lb.  
**MELLINGER'S, INC.**  
Box AN North Lima, O.

Quick — Convenient — Cheap!  
Selling through the Classified Ads  
of the American Nurseryman.

## SHRUBS AND TREES

## POTTED GRAFTS, 1-YR.

	Per 100
Acer palmatum atropurpureum dissectum	\$75.00
Fagus sylvatica riversi	75.00

## ROOTED CUTTINGS, 1-YR., BEDDED

	Per 100	Per 1000
Chamaecyparis cyano viridis	15.00	150.00
Euonymus patens, 4 to 6 in.	10.00	90.00
Chamaecyparis filifera aurea, 4 to 6 in.	15.00	150.00
Ilex bullata, 4 to 6 in.	10.00	90.00
Ilex crenata, 4 to 6 in.	10.00	90.00
Ilex glabra, 4 to 6 in.	10.00	90.00
Thuja nigra, 5 to 8 in.	10.00	90.00
Azalea hinoedegiri, 2-yr., trans. (well-branched), 4 to 6 in.	25.00	250.00
(Transplanted in flats)		
Azalea Hino-Crimson	12.00	100.00
Azalea Hinoedegiri	12.00	100.00
Azalea kaempferi Fedora	12.00	100.00
Euonymus japonicus	12.00	100.00
Pieris japonica	12.00	100.00
Pachysandra	4.00	35.00

## 1-YR. SEEDLINGS

Acer palmatum	3.00	25.00
Cornus florida	5.00	40.00
Chinese Chestnut	10.00	90.00
Fagus sylvatica	10.00	90.00
Taxus capitata	5.00	40.00

## 2-YR. SEEDLINGS

Azalea schlippenbachii (2-yr. transplants)	15.00	150.00
Azalea mollis (2-yr. transp.)	15.00	150.00
Acer palmatum	6.00	50.00
Balsam Fir, 3 to 5 in.	4.00	35.00
Colorado Pinyon Pine (glauca), 4 to 5 in.	8.00	70.00
Concolor Fir, 3 to 5 in.	8.00	60.00
Cornus florida, 8 to 14 in.	6.00	50.00
Douglas Fir (glauca), 4 to 8 in.	6.00	45.00
Douglas Fir (viridis), (green), 4 to 8 in.	6.00	45.00
Ilex crenata, 4 to 6 in.	5.00	40.00
Leucothoe catesbaei (2-yr. transpl.), 6 to 10 in.	30.00	300.00
Picea excelsa, 4 to 6 in.	3.50	25.00
Picea engelmanni, 3 to 6 in.	6.00	50.00
Picea (Black Hills Spruce), 3 to 6 in.	5.00	40.00
Picea pungens glauca, 3 to 5 in.	4.00	35.00
Picea sitchensis (Sitka), 3 to 5 in.	6.00	50.00
Picea (White Spruce), 4 to 6 in.	3.50	25.00
Pinus strobus, 4 to 6 in.	3.50	25.00
Pinus sylvestris, 4 to 6 in.	3.50	25.00
Pinus thunbergi, 4 to 6 in.	4.00	30.00
Taxus capitata, 4 to 6 in.	7.00	60.00
Thuja occidentalis, 4 to 6 in.	5.00	40.00
Thuja orientalis, 4 to 8 in.	3.50	30.00
Tsuga canadensis diversifolia, 3 to 4 in.	6.00	50.00
Tsuga canadensis, 3 to 4 in.	6.00	50.00

## 3-YR. TRANSPLANTS

Douglas Fir, 5 to 8 in.	6.00	50.00
Taxus capitata, 4 to 8 in.	12.00	100.00
Tsuga caroliniana, 3 to 6 in.	10.00	90.00
Tsuga canadensis, 4 to 7 in.	8.00	70.00
Pinus strobus, 6 to 8 in.	8.00	70.00

## 4-YR. TRANSPLANTS

Picea excelsa, 6 to 8 in.	6.00	50.00
Picea pungens glauca, 4 to 8 in.	7.00	60.00
Tsuga canadensis, 5 to 8 in.	10.00	90.00
Tsuga canadensis, 8 to 10 in.	15.00	140.00
Tsuga canadensis, 10 to 12 in.	20.00	190.00

## VAN DINE NURSERY

287 Berdan Ave. Wayne, Pa. Wayne, Pa.

## CLEYERA JAPONICA

	Per 100
2 1/2-in. pots (8 to 12 in.)	\$15.00

## COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

## SHRUBS AND TREES

	100	1000
Taxus cuspidata capitata	\$9.00	\$75.00
2-yr. seedlings, 4 to 6 in.	15.00	125.00
3-yr. transp. seedl., 4 to 8 in.	15.00	125.00

Tsuga canadensis	10.00	85.00
2-yr., transplanted, 4 to 6 in.	10.00	85.00
3-yr., transplanted, 6 to 9 in.	16.00	125.00
4-yr., transplanted, 9 to 12 in.	25.00	200.00

Cornus florida	6.00	50.00
1-yr. seedlings, No. 1	5.00	40.00
1-yr. seedlings, No. 2	12.50	100.00
2-yr. seedlings, No. 1	12.50	100.00

Andromeda japonica	17.50	150.00
transplanted cuttings	15.00	125.00

Taxus andersonii	15.00	125.00
Taxus brevifolia	15.00	125.00
Taxus Moon's columnaris	15.00	125.00
Taxus densiformis	15.00	125.00
Taxus Halloran	15.00	125.00
Taxus henryi	15.00	125.00
Taxus brownii	11.00	100.00
Taxus cuspidata nana	11.00	100.00
Taxus hatfieldii	11.00	100.00
Taxus intermedia	11.00	100.00
Taxus hunnewelliana	11.00	100.00

1-YR. BEDDED	17.50	150.00
Taxus andersonii	17.50	150.00
Taxus brownii	17.50	150.00
Taxus cuspidata	17.50	150.00
Taxus hatfieldii	17.50	150.00
Taxus hickii	17.50	150.00
Taxus hunnewelliana	17.50	150.00
Taxus intermedia	17.50	150.00

We also have to offer a complete assortment of potted grafted stock, root grafts of Kwanzan Cherry, Crab Apples, Lilacs, etc. Please ask for complete list. Special prices on quantity orders.

**NURSERY SALES, INC.**  
P. O. Box 295 Ridgewood, N. J.

## NEW ROYAL PURPLE SMOKEBUSH

(Rhus cotinus, royal-purple)

There are several varieties of purple Smokebush, although Royal Purple is considered the very best. Several varieties of Smokebush have been tried out in the nursery with Royal Purple always turning out to be the most outstanding. I am convinced of this to the extent that it is the only one now being propagated in the nursery. Royal Purple keeps its rich, dark purple reddish colored foliage from spring to late fall. In late summer the matured leaves show a mottled edge which is a light red edge around the dark purple leaf. It is an outstanding plant in that it draws the attention of all who visit the nursery and is greatly admired for its brilliant foliage. The foliage is darker than any red Japanese Maple. The plant is adaptable for use as a lawn specimen, especially in locations where the Japanese Maple is not hardy. Royal Purple is the only purple Smokebush to receive a certificate of merit from the Royal Horticultural Society. The branches make an excellent filler for bouquets, especially with Chrysanthemums.

2 to 3 ft., bare-root, 2 to 5 branches. 1 to 99, \$1.75 each; 100 or more, \$1.50 each.

3 to 4 ft., bare-root, per 10, \$3.50 each; per 100, \$3.00 each.

Circular with colored picture of Royal Purple Smokebush sent on request.

**C. HOOGEENDOORN, NURSERYMAN**  
Newport, R. I.

## ROOTED CUTTINGS

	Each	100	1000
Taxus, cuspidata, capitata	\$0.10	\$10.00	\$0.08
Juniper, Pfitzer, hetzi, Savin V.E.	.10	.08	

## LINERS

Juniper, Pfitzer	.35	.30
Arbutus, Pyramidal, Gde. Am.	.30	.25
Scotch Pine, XX, 12 to 24 in.	.75	.65
Birch, European White Multiple		
100 8 to 15 ft., B&B, \$10.00 each.		
25 15 to 18 ft., B&B, \$15.00 each.		
Chinese Elm, 12 to 24 in., S, \$25.00 per 1000.		
300 1 1/2 to 2 1/2 in., TT	5.55	3.00
300 3/4 to 2 1/2 in., TT, row-nur.	3.00	1.75

TERMS: 2 per cent discount, cash with order, free packing. 25 at 100 rate; 250 at 1000 rate.

WRITE FOR COMPLETE PRICE LIST.

**RICHARDSON NURSERIES**  
53947 Fir Rd., R. 1 Granger, Ind.

Phone BBlackburn 9-1010.

## WHITE OAK LINERS

Quercus alba, 3-yr., heavy, nursery-grown.

	Per 100	Per 1000
12 to 18 in.	\$ 8.00	\$ 75.00
18 to 24 in.	11.00	100.00
2 to 3 ft.	13.50	125.00
3 to 4 ft., lightly branched	20.00	175.00
4 to 5 ft., lightly branched	25.00	225.00
5 to 6 ft., lightly branched	35.00	300.00

Free packing. Cash with order.

**HAGGERTY LANDSCAPE NURSERY**  
Lincoln 6, Neb.

## PODOCARPUS MAKI

(Fast-growing strain.)

	Per 100
Seedlings, for 2 1/2-in. pots	\$ 4.00
Pot-grown, 4 to 6 in. tall	10.00
Pot-grown, 7 to 9 in. tall	12.00
Pot-grown, 10 to 12 in. tall	15.00
Pot-grown, 13 to 15 in. tall	25.00

For quantities of 500 or more per shipment, less 10 per cent.

**PEARSON NURSERY**  
Box 477 Plymouth, Fla.

## SHRUBS AND TREES, BARE-ROOT

	Each	100
800 Cotoneaster apiculata, 18 to 24 in.	\$1.85	
15 to 18 in.	1.50	
1100 Cotoneaster divaricata, 2 to 3 ft.	.95	
800 Euonymus alatus, 2 to 3 ft.	.90	
600 Philadelphus virginialis, 18 to 24 in.	.35	
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1000 Salix purpurea nana, 18 to 24 in.	.25	
Dwarf Arctic Willow, 2 to 3 ft.	.35	
250 Viburnum burkwoodi, 18 to 24 in.	.75	

B&B add 50c per plant.

Special quotations on large quantities.

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**GERARD K. KLYN, INC.**  
Mentor, O.

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	Per 100	Per 1000
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Taxus andersonii	11.00	100.00
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Juniperus hetzi, blue	10.00	95.00

TRANSPLANTS FROM FLATS Per 100

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Othello, Herbert, Boudoir, Coraage, Mary Ann	100.00

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**NURSERY-GROWN NORWAY MAPLES**

**HEAVY ROOTED CUTTINGS**  
Taxus, cuspidata, media hatfieldii.  
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1200 Roses, in pots.  
\$1.00 each, \$95.00 per 100.

200 French Lilacs, B&B, \$3.00.

Forythia, Spiraea, Weigela, Viburnums, standard and dwarf Apples, Pears, Amur R. Privet, 3 to 4, 45c. Sugar and Norway Maples, clump Birch, Evergreens. Come and see.

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For Christmas trees, 2-yr.-old, 4 to 8 in.

Per 1000 Per 10,000

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Ship beetle zone, outside beetle zone.

**HATFIELD, upright**

**MOONI, upright**

**HICKSI, upright**

**CUSPIDATA CAPITATA, upright; from leaders**

**CUSPIDATA, spring**

\$40.00 per 100, \$350.00 per 1000.
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3-yr.-old THAYERAE, spreading.

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1,000 hatfieldii	100.00 per 1000
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**JOHN VERMEULEN & SON, INC.**  
Neshanic Station, N. J.

## 2,500 Active Nurserymen

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All types and sizes.

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13-6-6 Organic Special Du Pont Uramite  
Nitrogen and highest grade natural or-  
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bags.

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Freight prepaid, east of Mississippi, on all  
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Shipped from Williamston, N. C.

#### WHITE CEDAR FLATS

Shipped from Cook, Minn.

Order by No.		Cypress	
		Per	Wt.
		100	100
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No. 2,	14x20x3 1/2-in. ....	31.50	400 500
No. 3,	12x16x2 1/2-in. ....	20.75	260 325
No. 4,	12x16x3 1/2-in. ....	24.50	275 345
No. 5,	14x16x2 1/2-in. ....	23.25	275 345
No. 6,	14x16x3 1/2-in. ....	27.50	290 365
No. 7,	15x22 1/2 x 3 1/2-in. ....	30.75	380 475
No. 8,	15x22 1/2 x 3 1/2-in. ....	35.50	425 535
No. 9,	11 1/4 x 22 1/2 x 2 1/2-in. ....	25.00	320 400
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No. 11,	14x16x3-in. ....	32.75	450 560
No. 12,	5x11x5-in. ....	16.75	160 200
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Skeleton flats to carry TEKPAKS and similar  
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Above prices apply to both Cypress and  
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5 per cent discount on orders of 1000 or  
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The above sizes are inside measurements.  
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Write inquiries and orders for White Cedar  
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Shipped knocked-down in units of 25.  
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Manufacturers of flats, boxes, wood turnings  
and specialties.

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Finest stock obtainable. Guaranteed all  
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\$38.00 per 100.

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50 pcs. to bundle, 5 ft., \$4.50 per bdl.

50 pcs. to bundle, 6 ft., \$5.50 per bdl.

Ship same day. Cash with order, please.

YOHO & HOOKER, YOUNGSTOWN 2, O.

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Priced per carton

8x5 ins. (cartons 500 each) . \$3.60 Plain Painted

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For potting all Orchids.

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WITH SOLID COPPER BANDS

8x 7 1/2 lbs. ... \$1.70 18x15, 9 1/2 lbs. ... \$4.45

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14x12, 6 1/2 lbs. ... 2.90 27x19, 19 lbs. ... 9.00

16x13, 8 1/2 lbs. ... 3.45

Coaster, 18x10, with plastic bowl, 2 1/2 lbs. 2.65

Coaster, 18x13, with plastic bowl, 3 lbs. 2.75

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Sole Distributor.

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DeLux Model

The finest of California's Redwood, it's

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### POLYETHYLENE FILM

2 mil. in 200-ft. rolls, 36 ins. wide, \$5.95;

54 ins. wide, \$8.79; 108 ins. wide, \$17.34.

4 mil. in 100-ft. rolls, 36 ins. wide, \$6.18;

54 ins. wide, \$9.12; 126 ins. wide, \$20.20.

5 rolls, less 10 per cent, 10 rolls, less 20

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We pay freight if check is with order.

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Sun-resistant black for mulching, .0015 mil.

3 ft. x 500 ft. .... \$ 7.70 per roll

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Natural transparent only.

.002 mil., all rolls 200 ft. long.

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8 ft. 4 ins. x 200 ft. .... 12.00 per roll

Natural transparent and sun-resistant black.

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3 ft. x 100 ft. .... \$ 5.00 per roll

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6 ft. x 100 ft. .... 11.00 per roll

8 ft. x 100 ft. .... 15.00 per roll

Minimum order 4 rolls. Write for low

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Other sizes and mil. weights available

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3 ft. wide by 100 ft. long. .... \$ 4.00 per roll

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6 ft. wide by 100 ft. long. .... 12.00 per roll

8 ft. wide by 100 ft. long. .... 16.00 per roll

Other sizes available up to 20 ft. wide.

Send \$1.00 for liberal sample.

4 ft. x 10 ft., postpaid.

Special deal for greenhouse construction.

5 rolls to 9 rolls, 25 per cent discount.

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GUYING WIRE.

3/16-in. inside dia. by 1/2-in. outside dia.

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## NO. 1 SPHAGNUM MOSS

Large burlap bales, long fibered, clean,

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Long-fibered sphagnum moss, also ground

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### CYPRESS PLANT STAKES

50 pieces to bundle.

1x1-in.—3 ft., pointed .... \$3.00 per bundle

1x1-in.—4 ft., pointed .... 3.50 per bundle

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These stakes are made of cypress and red-

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GALVANIZED tree guying WIRE,

HOSE for guy wire PADDING.

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## Nurseries Display At Multnomah Parade of Gardens

By Charles H. Potter

The fifth annual Multnomah county "Parade of Gardens" was held in the county fair buildings, Gresham, Ore., April 3 to 7, with record attendance. This was the finest of the shows, which have been held annually since 1953, except in 1956 when there was insufficient plant material available because of the big freeze of the previous fall.

Lawrence Underhill, Portland landscape architect, conceived the idea for the modified Oriental theme garden this year. General chairman of the entire show was Robert Snodgrass, Esch Nursery and Seven Dees Nursery, Portland. His co-chairman was Harold Tooze, Tooze Floral Service, Portland. The theme garden and nursery and landscape section entries were installed by members of the nursery and florists' trades.

Words are inadequate to describe the magic of the theme garden, which dominated the center of a large building. The size and beauty of the planting cast a spell over all who saw it from the winding pathway about the water.

At one end of the building, against the walls, were patio and garden scenes. Between the pathway and the lake were beds of tulips, Scotch broom, primroses and many other bulbous and shrubby plants. Spotted here and there were gorgeous specimen shrubs and trees in full bloom. At one point a huge wistaria in full bloom hung over the water.

### Bridges Add Beauty

Arching over the lake, some 20 feet above the water at the center, was a beautiful Japanese bridge. Further on, at the headwater of the lake, another bamboo bridge crossed a stream that danced and bounced over the boulders in its bed. On the banks of the stream were perennials, flowering shrubs, ferns and trees. In the open stretches, bright green sod framed the more spectacular plants.

Huge fir and other trees created a background of dark green. Hidden cages held birds whose songs floated through the building, and soft music gave added pleasure.

But the real surprise came periodically when the music became stormy and lights dimmed. Thunder rolled and lightning flashed as a storm brewed in the garden, cul-

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(All-weather)



3 1/2" x 3/4"

- Patented cardboard backing permits easy embossing with ordinary lead pencil.
- Heavy eyelet. Copper-wired.
- Attractive silver Aluminum, backed with yellow cardboard.
- Inexpensively priced:  
1000 for ... \$16.00    250 for ... \$6.00  
500 for ... 10.00    100 for ... 3.00

Please Write for Free Samples

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"Weather Resistant"

- Made of Water-resistant Tough Tag Board
- All White, Easily Marked
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- Sheets for Typewriting



Size 1x6 Ins.

Prices per 1000—White Tag Stock

1000 to 4000....	\$1.50	20,000....	\$1.05
5000 to 9000....	1.30	50,000....	.85
10,000 .....	1.15	100,000....	.80

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## A beautiful healthy plant

deserves a

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PLASTIC  
POT!**

Write for prices.



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Dutch and Domestic  
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FREE CATALOG  
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Dept. A-85



## PIONEER MANUFACTURERS OF MECHANICAL RAKES

minating in rainfall which showered down upon the lake. Then, as the rainfall gradually stopped, the storm lifted and the garden scene again was one of spring enchantment.

### Patio and Garden Displays

In another section of the nursery building, individual nurserymen and landscape gardeners created many lovely patios and gardens. George's Gardens, Portland, had a lovely red cut-leaved maple in the center of the display, surrounded by an edging of red-flowering tufted perennial pinks. Tulips, azaleas and marigolds brightened the garden scene, and lilacs completed the background.

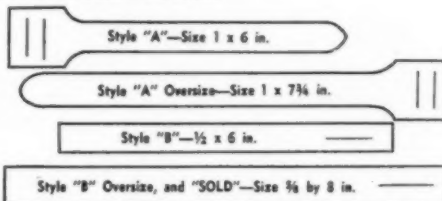
Holgate Nursery Co., Portland, entered a modified Japanese roof garden, complete with contemporary plants, containers and garden furniture. Mays Landscape Nursery, Vancouver, Wash., had a garden scene with beautiful azaleas, camellias and other flowering shrubs enhancing its appeal.

Doerfler & Sons Nursery, Salem, Ore., used variegated pachysandra as a ground cover in the foreground of the firm's garden scene. Rock daphne, rhododendrons and assorted shrubs completed its beauty. Sunset Landscape Co., Portland, showed a simulated Mount Hood rising from



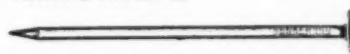
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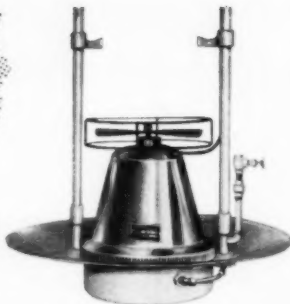
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Standard Model IH-27B  
Complete with automatic  
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unit, connect to water and  
electricity.

**STANDARD ENGINEERING WORKS**

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Display: **\$4.50** per inch, each insertion.

Lines: **40c** line; minimum order **\$4.00**.

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#### NURSERY FOREMAN

Large, wholesale nursery offers good opportunity to experienced nurseryman who can bud and graft, as well as supervise nursery operations. Permanent position and chance for advancement. Many benefits. Replies kept confidential.

**WILLIS NURSERY CO.**

Box 335 Ottawa, Kan.

### HELP WANTED

Nursery foreman, capable of digging orders, propagating nursery stock and waiting on customers. Location Long Island. Write stating qualifications and salary. Write Box 498, care of American Nurseryman.

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Outstanding dependable west coast line of field roses by nursery distributing organization with established top-rated retail outlets. Write full particulars of your line and the varieties you produce. Write Box 496, care of American Nurseryman.

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Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

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**FOR SALE**—Nursery and florists' business. Continuous ownership for over 35 years. Within city limits. No competition in large county. Good residence on place. Physically unable to continue. **WHITE'S NURSERY & FLORIST**, Meeker, Colo.

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the center of the firm's display, with a lovely planting surrounding the base of the "mountain." Rhododendron Nursery, Portland, had an outstanding display of azaleas and rhododendrons in full bloom.

Schmidt Bros. Nursery, Troutdale, Ore., had an Oriental garden with attractive background material. Kelly Landscape Nursery, Portland, used a birdbath as the focal point of its garden scene. Klupenger Nursery, Portland, had a pool in the display which was surrounded by large rhododendrons and azaleas in bloom. Charles H. Skinner, Pacific Natives Nursery, entered a garden of all-native shrubs.

Surface Nursery, Gresham, Ore., surrounded an attractive glass coffee table with azaleas and rhododendrons. Esch Nursery, Portland, featured rhododendrons in its display. Percy Nursery Co., Salem, Ore., entered an Oriental garden. Hugh Tyler, Portland, featured lilies in his display. Junay's Garden Center, Portland, had a formal garden, which included a pool and an attractive planting. Seven Dees Nursery, Abbott's Green Thumb, Edgerton, Portland Camellia Nursery and Sharp's Nursery, all of Portland, and Rich & Sons Nursery, Hillsboro, all had beautiful displays.

Joining with the nurserymen and the landscape gardeners to create the over-all show were the florists, headed by the Oregon Florists' Club, with Alan James, Burkhardt Florist, Portland, as chairman of the florists' section, which occupied another entire building. The florists, too, tied in with the general theme and with the idea of showing the average homeowner how to glamorize his yard and home at reasonable cost.

Another building housed commercial displays, and one more was devoted to the sale of shrubs and plants.

### HOLLY SOCIETY MEETING

[Continued from page 8]

gibberellic acid. He stated, however, that the Connecticut experiment station has reported some effect on Japanese convexa holly. Dr. Snyder concluded his talk by saying that gibberellic acid is not recommended at present for commercial use.

Alfred Teufel acquainted eastern members of the society with holly orcharding as it is practiced in the Pacific northwest. Mr. Teufel illustrated his talk with color slides depicting the operation of the Teufel Holly Farms. In addition Mr. Teufel displayed his latest English holly varieties.

Wallace Mitcheltree, extension spe-

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<b>Size 3</b> Top . . . 8 1/2 ins. Bottom 6 1/2 ins. High . . . 9 ins. Weight per 100 Regular 30 lbs., Heavy 70 Regular Weight Price 100..\$5.00 1000..\$47.50 Heavy Weight Price 100..\$6.25 1000..\$60.00	<b>Size 4</b> Top . . . 10 ins. Bottom 8 ins. High . . . 10 ins. Weight per 100-120 lbs. 100..\$11.00 500..\$52.50 1000..\$100.00 *Heavy Only— For trees and shrubs.	<b>Size 5</b> Top . . . 12 ins. Bottom 10 ins. High . . . 12 ins. LG. POT Weight per 100-250 lbs. 20..\$30 ea. 100..\$27.50 500..\$125 1000..\$225 *Special for extra-heavy trees and large shrubs.	<b>Size Pan</b> Top . . . 8 1/2 ins. Bottom 7 1/2 ins. High . . . 7 1/2 ins. PAN Weight per 100 Regular 30 lbs., Heavy 70 Regular Weight Price 100..\$5.00 1000..\$47.50 Heavy Weight Price 100..\$6.25 1000..\$60.00
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<b>PENNSYLVANIA</b>	E. C. Geiger, North Wales, Pa. Verscharen's Garden Centers, Rt. 51, Brentwood, Pittsburgh, Pa. Rt. 88, S. Park, Pittsburgh, Pa.
<b>NEW JERSEY</b>	New Yorker Bag & Burlap Co., 651 Marshall St., Elizabeth, N. J. Somerset Rose Nursery, Inc., New Brunswick, N. J.
<b>MICHIGAN</b>	Michigan Bulb Co., 845 Ottawa, N.W., Grand Rapids, Mich. Growers Exchange, Inc., P. O. Box 397, Farmington, Mich. Strickland Seed Store, 1429 Gratiot Ave., Detroit, Mich.
<b>RHODE ISLAND</b>	American-Dutch Trading Co., Inc., 47 Coddling St., Providence, R. I.
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500 of a size takes 1000 rate in sizes 0-0 1/2-1-2-3-Pan. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-Pan. Size 0, 250 only. Size 0 1/2, 200 only. Heavy pots are packed 250 per carton in size 0; 100 per carton in sizes 0 1/2 and 1; 50 per carton in sizes 2, 3, Pan and 4, and 20 per carton in size 5. NO BROKEN CARTONS.

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cialist in soils, Rutgers University, presented some principles of soil management. Mr. Mitcheltree stated that soil management and fertilization go hand in hand. Maintaining good soil structure is essential, and the presence of organic matter in the soil is also important. Soils need lime, he said, but warned against the danger of overliming. Adequate fertilizer is needed. Soil tests which are properly conducted and evaluated can be of assistance.

The last address before adjournment of the meeting, "Propagating Holly," was given by C. W. Dunham, University of Delaware. Dr. Dunham's talk appears in full in this issue.

KRAUSE NURSERY, Spokane, Wash., was recently presented with the second annual advertising award of the Advertising and Sales Association of Spokane for the most outstanding locally designed and produced illuminated sign.



## NEW COMPLETE CONSTANT MIST PROPAGATION SYSTEM

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MIST METHODS CO. — Jewel W. Templeton — AN-4 — WINCHESTER, TENN.







# Lake County Nursery Industry

1858—A CENTURY OF PLANTING AND STILL GROWING—1958

By Marie Brandstaetter

## ASSOCIATION HISTORY

As a result of a plan to organize persons engaged in the nursery industry, the Lake County Nurserymen's Association was formed in the spring of 1927. Fifty-one nurserymen representing 36 firms expressed a desire to join and registered as charter members of the newly formed group. Twelve nurseries of the original number are still active in the association, the membership of which now totals 80. Included in this number are several nurserymen in Ashtabula, Cuyahoga and other counties who are interested in the association.

Firms boasting membership since the association's inception are Champion Nurseries; the Cole Nursery Co.; Donewell Nurseries; Dugan Nurseries; the Kallay Bros Co.; Gerard K. Klyn, Inc.; Charles Kohankie (formerly Julius Kohankie & Son); Joseph F. Martin Co.; C. T. Waldorf; T. B. West & Son; Melvin E. Wyant, Rose Specialist, Inc., and Joseph P. Youdath Nurseries.

## First President

The first president was W. B. Cole, dean of Lake county nurserymen. A. N. Champion served as vice-president, with C. H. Shumaker, secretary, and T. B. West, treasurer. Present officers are H. A. Horton, Horton Nurseries, Inc., Painesville, president, and Alan Cook, Madison, vice-president. Marie Brandstaetter is secretary-treasurer. Other members of the executive committee are Past Presidents K. B. Fisher, J. J. Kern and Gerard C. Klyn, all of Mentor.

All persons engaged in the growing of nursery stock and holding a growers' license in Lake or contiguous counties are eligible for active membership, and dealers in nursery products or allied trades may join as associate members. The association also has two affiliate members: Lewis Lip, horticulturist, Holden Arboretum, Mentor, and Glenn Haskins, Lake county agricultural extension agent, Painesville. Elston Seward, Seward Trucking Co., Painesville, is an associate member.

Under the leadership of Past President Joseph J. Kern, the anniversary trophy was inaugurated.

*This article concludes the series on the centennial anniversary of the Lake County nursery industry. Previous stories appeared in the April 1 and May 1 issues of this magazine.*

This trophy will be awarded annually to the person who has grown the most perfect rose entered in the Cleveland Rose Society's show, which is held in October. The trophy will be inscribed with the winner's name and will be a perpetual memorial, passing on to subsequent winners yearly, the presentation being made by the past president of the association.

For a number of years, the local nurserymen subscribed well over \$15,000 in an effort to control the spread of the Japanese beetle. When this program was first initiated,

funds solicited by L. C. N. A. were used for purchasing dusting and spraying materials, as well as for aerial application of dust. Labor for application of the materials was later furnished by the United States Department of Agriculture, but dust and spray materials were purchased with local funds.

## Other Activities

The Lake County Nurserymen's Association also participated in the annual Cleveland home and flower show with attractive displays for several years and has frequently been host to the Ohio Nurserymen's Association for the latter's annual summer meeting.

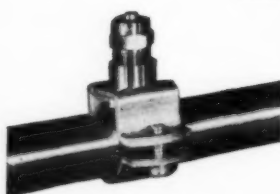
To publicize the Lake county and its nursery products, the local association has erected signs on Route 20 at both ends of Lake

## WE STOCK

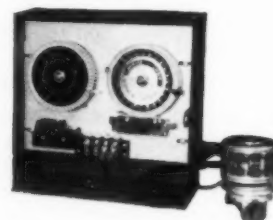


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county identifying the region as the "nursery capital of America."

Each year the Lake County Nurserymen's Association sponsors a 1-day nurserymen's school in February in cooperation with the horticulture department of Ohio State University, Columbus, and the local agricultural extension service. About 150 to 200 nurserymen register for the school, coming from all sections of Ohio, as well as from neighboring states.

Guest speakers are authorities on specialized subjects in the field of horticulture, and topics such as disease and insect control, improved methods of propagation, fertilization, irrigation, soil and water conservation, newest methods of packing, shipping and storage facilities are discussed to keep the local nurserymen abreast of developments in research and trends in their industry.

### Summer Field Trip

During the summer, the association plans a field trip of local nurseries that have followed a program of improvement in some phase of the nursery industry. This tour is culminated in the evening by the annual meeting for election of officers. Dr. L. C. Chadwick and other representatives of the horticulture department of Ohio State University are usually present on the tour.

Regular business meetings are held thorough the autumn, winter and early spring, with interesting and instructive programs planned. The Lake county agricultural extension agent and soil conservationist work in close alliance with the nurserymen, offering them valuable assistance.

One of the highlights of the nursery industry occurred in 1927 when the American Association of Nurserymen met at Cleveland for its annual convention. On the opening day of the convention, the entire delegation toured the nursery area of Lake county. This was heralded as "one of the most auspicious occasions in the history of Lake county" by local papers.

A committee of prominent Lake county nurserymen made the necessary arrangements for the tour, which had been painstakingly mapped and checked to give the visitors a comprehensive view of the county's nurseries. Six hundred A. A. N. members went to Mentor via special trains from Cleveland. They were met by approximately 250 automobiles, and the procession of cars measured over two miles in length as it wound along its 35-mile route through the nursery belt.

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### TRIMETTE

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Cultivates gardens and flower beds. Edges around trees and shrubs. Digs water line trenches. Four tempered steel blades cultivate to any desired depth.



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Shears weeds and brambles, cuts saplings up to 3/4" in diameter at a walking pace. Cuts under water—clearing weeds, reeds, etc.



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- **ACCURATE UNDER ALL CONDITIONS** • The mixture is guaranteed within 10% with all types of fertilizer solution, regardless of any changes in the water pressure or rate of flow, and in most cases is within 2%-5%. No more crop losses from "Burning."
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Green Enamel Finish  
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## Texas Foundation Plans Rose Survey

A meeting held April 14 at the Rose Center building, Tyler, Tex., and attended by about 60 rose nurserymen of the area may begin a new period of development for the industry. Homer Eikner, Vermay Nursery, Tyler, president of Texas Rose Research Foundation, Inc., presided at the open meeting, which resulted in a unanimous vote authorizing the foundation to undertake a survey to determine the present needs of the Texas rose industry and to map some long-range plans for it.

Participating in the program were members of the staff of the Texas agricultural experiment station and the Agricultural and Mechanical College of Texas, including Dr. R. D. Lewis, director of the experiment station; Dr. A. F. DeWerth, head of the department of floriculture and landscape architecture; Dr. J. G. McNelly, coordinator of marketing research, and P. R. Johnson, superintendent of the Tyler substation. Ben Brown, county agent for Smith county; Robert Murdoch, of the East Texas Agricultural Council; Frank Bronaugh, of the Tyler chamber of commerce, and Tom Jackson, president of the East Texas Farm and Ranch Club, also were present.

After a welcome by Mr. Eikner, a review of the history of field growing of roses in Texas from 1890 to the present was given by Dr. E. W. Lyle, plant pathologist with the Texas Rose Research Foundation. Mention was made of events promoting the industry, such as the introduction of budding in the process of propagation, the establishment of rose research as a full-time project of the Texas agricultural experiment station in 1935 and the organization of the Texas Rose Research Foundation in 1946. Further expansion of research was cited as being desirable in many lines pertaining to growing, handling and marketing methods.

#### Coordinated Effort Needed

Everett Janne, secretary-treasurer of the foundation and research horticulturist with Consolidated Nurseries, Tyler, spoke of the need for coordinated effort between the various agencies making studies on roses. Dr. R. D. Lewis, speaking for the experiment station, said that changes in the trade were inevitable and occur more rapidly now than ever before. To make research studies more effective, he said, members of the industry must recognize what their



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**Specifications:** Bellows of rubberized canvas for long life; steel tank lead coated; all working parts enclosed; powder mixed by air jet agitation; adjustable feed control; up to 8 lbs. capacity.



### Champion's "Little Champ" rotary hand duster



**Specifications:** 8½ in. high, weighs only 2¾ lbs., holds up to 2 lbs. Horizontal spiral agitator; powerful horizontal fan; adjustable feed control; two discharge tubes and dust spreader.

### and for better spraying . . . CHAMPION

These are two of the Champion line of dusters. Also there is the wide range of Champion portable sprayers—each a big value in its field and the kind of merchandise

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problems are and must act with determination on these problems.

The industry can benefit by studying consumer patterns and by finding out what the home gardener wants. Dr. Lewis noted that large industries budget from 2 to 7 per cent of their income on research to keep abreast of new developments and to prepare for any emergencies that may arise.

Floricultural success and improvement in Texas has been aided greatly by research conducted by the floriculture department at the A. and M. College. The methods used in obtaining data on marketing were mentioned by Dr. J. G. McNeely. Dr. A. F. DeWerth spoke with optimism about the potential of the rose industry and the expansion of marketing. He said that leadership in facing problems should come from the industry itself, with direction from the desires and needs of the consumer, and not from the college staff. Further discussion centered around the close control of marketing exercised by some of the citrus organizations and also by certain cooperatives.

Production and marketing go together, according to Dr. McNeely, and studies of them are affected by the size of the industry, the various grades established and the costs in-



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Aluminum, designed for scientific sun control.

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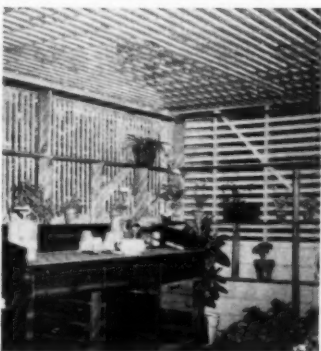


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volved in production and marketing. One of the nurserymen present pointed out that real and fancied problems need to be distinguished and that the improvement of the industry should be the individual responsibility of each nurseryman.

The need for educational programs as well as advertising in securing better marketing conditions was discussed. It was brought out that listing of the different phases in the growing, harvesting and selling of roses should be done to aid researchers with the problems. In taking action after the discussion, the nurserymen voted unanimously to have the directors of Texas Rose Research Foundation, Inc., represent the area's rose industry in initiating a survey to determine present needs and to draft long-range plans. E. W. L.

### FIND DUTCH ELM CLUES

New findings that may one day help in developing more effective control measures for Dutch elm disease were presented last month at Washington, D. C., at the annual meeting of the National Academy of Sciences by Dr. A. E. Dimond, Connecticut agricultural experiment station, New Haven, and Dr. Ahktar Husain, formerly of the station staff.

The Connecticut station scientists have learned how the fungus responsible for the disease produces enzymes in the diseased elm tree and how these enzymes help the fungus.

Dutch elm disease is caused by a fungus that plugs up the trunk and branches of the elm tree so that water cannot move from roots to the leaves. Water-conducting cells develop balloonlike structures in diseased trees. One enzyme produced by the fungus probably loosens these structures, enabling them to move with the water stream. When a number of dislodged structures, called tyloses, get caught in a narrow opening of the water-conducting cells, they may create a dam and greatly cut down water movement.

#### Enzymes Formed

Two enzymes are formed by the fungus that help it to attack the tree. One attacks the pectins—the cementing substances in the stem. The other attacks cellulose wood substance. Both enzymes are produced in small amounts and break down the materials in the elm tree to sugarlike compounds that are not in themselves harmful. However, the fungus needs these compounds for food, as elm sap usually contains too little food for the fungus to grow well. Thus these enzymes, freed by the fungus into the trunk of the

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No clogging



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- Use as little as one gallon per hour at usual water pressures.
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FOGGER CAPACITY AND APPROXIMATE BENCH WIDTH COVERED AT 25 LBS. PRESSURE, 4-FT. HEIGHT

Orifice Size	Gallons Per Hour	Coverage 4-Ft. Height
4.6	2.30	36 ins.
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10.0	5.00	60 ins.

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elm, convert complex compounds into food for the fungus, and the pectin enzyme helps produce water shortage by creating microscopic dams in trunk and branches of the tree.

In discussing the significance of these findings, Dr. Dimond pointed out that in other wilt diseases the same enzymes may be involved, perhaps in a more direct way. In a number of wilt diseases, wilting results from the action of the enzymes to produce viscous fluids in the stem, thus impeding water flow. In the present study, the enzymes were found to break down materials to such simple compounds and the amount of enzyme produced was so small that this type of activity was ruled out.

"It may be a long time before this research finds practical use in control of Dutch elm disease," Dr. Dimond said. "If these enzymes are important in helping the fungus to find its food in the tree, then we may be able to find chemicals to inactivate them. To be practically useful, such antienzymes will have to be absorbed by the plant and moved into the water-conducting system in sufficient concentration to do the job. Luck is with us, because so little of the enzyme is present that it can be controlled with a small

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Cut shows  
Plant  
Stake

quantity of the antienzyme—when we find it."

This work on Dutch elm disease is part of a long program on control of Dutch elm disease that has

been pursued steadily at the Connecticut agricultural experiment station. Some years ago, station scientists, working on chemotherapy of this disease, developed a method of





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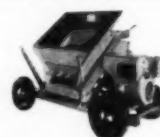
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drenching the soil around a tree with 8-quinolinol benzoate to protect it against infection. This treatment cuts the new infections in half. "Such treatments are in the right direction," Dr. Dimond said, "but they are not effective enough and are too costly for the average tree owner to use freely. We will continue our search until we find a better way of combating this and other wilt diseases."

### MARKETING ROSE PLANTS

[Continued from page 9]

various types of packages for presence of forced growths. If the buds had broken and growth started, the general opinion that the plant was alive and healthy was apparently the force stimulating sale. As a result, sales generally involved those treatments which included moist packing around the root system since these usually forced before plants packed without moist root-packing medium.

Also, the fact that the time interval between the date of display and first sale at the rural market was considerably longer than that at the urban and urban-city markets establishes the significance of the presence of foliage, or forced growths, as a moti-

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vating force stimulating sales at the rural level, since the roses, regardless of treatment, took at least two weeks to show growth activity.

If the plant material was packed in an opaque bag covering the canes, which made growths difficult to see unless held up to the light, the treatment was generally rejected in favor of one on which forced growth could be readily observed.

The type of trade dealing with the urban and urban-city salesyards was generally people who knew some facts about roses, their characteristics of growth, varieties available and procedures for care and planting. The trade coming to the nursery salesyard is generally not the typical dime-store trade, which might be inclined to purchase a rose on impulse after having seen it displayed attractively. Usually these persons came to the establishment to purchase a rose plant or at least plant material of some description.

It was the general opinion of sales personnel at both the urban and urban-city salesyards that the variety of plant displayed was the prime motivating force stimulating sales of bare-root, packaged roses. Bearing out this observation were the tabulated data which showed higher total sales for the Crimson Glory hybrid tea rose, regardless of packaging treatment, as compared to the total sales of Eclipse.

The fact that one variety moved faster than another suggests one of two things: Either rosarians are paying heed to the A. A. R. S. ratings or buyers are inclined to associate the color red with roses.

#### Visibility Factor

It was the general observation that customers, after being attracted to the rose display, at both the urban and urban-city salesyards, first picked up the selected treatment and examined it closely for bud-break, cane condition, number and size of canes, type of union and general vigor. For these types of markets, consequently, it is highly desirable to have at least the cane portion of the plant readily visible. Plants which were displayed either with a clear polyethylene bag over the entire cane surface or which had the canes waxed and exposed generally sold before those which were covered with an opaque red cane bag. There was considerable variation in the rate at which the various packaging treatments moved at the different market locations where they were tested.

Although no direct comparisons between container-grown roses of similar varieties to those displayed

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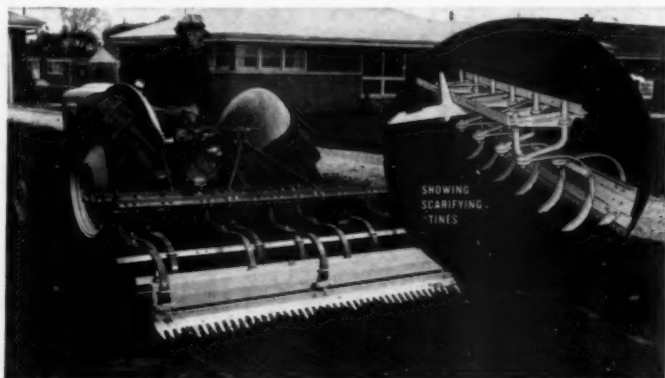
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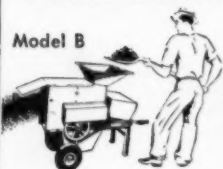
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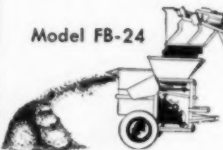
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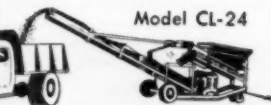
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as bare-root packaged items were made, it was apparent that buyers were cognizant of prices. Bare-root roses were always lower in price and, consequently, were favored from a price standpoint.

### Questionnaire Results

A total of 232 questionnaires was distributed to customers who had purchased one or more packages at all three market locations. Twenty-eight of the original 260 distributed to the three sales yards were not passed out.

Of the original number distributed, an over-all return of 32.8 per cent was realized from customers of the three locations. Considerable variation existed, however, between the per cent of return from the various areas. Only 16.6 per cent returns were realized from the urban market, and 21.9 per cent from the rural-farm market. Buyers at the urban-city sales yard, however, returned 73.7 per cent of the questionnaires originally passed out.

The factors most influential in determining package selection for each type of market as already mentioned as sales observations were also apparent in the replies to the questionnaires. Fifty-one per cent of the questionnaires returned indicated that plant visibility was of primary importance for package selection. Only 5 per cent indicated that visibility had little or nothing to do with choice of packaging treatment. It was quite apparent that customers who were gardeners and who knew plant material listed visibility as an important factor in package selection more often (68 per cent) than those from the urban (18 per cent) and farm (22 per cent) markets. Customers who purchased packs with uncovered waxed canes listed visibility more often than people who purchased any one of the other eight types of packaging.

Of the 76 questionnaires returned, 28, or 37 per cent, of those returned by the customers from all locations, irrespective of package treatment, checked the statement "The plant looked bigger than those in other packages." As with the visibility factor, the urban-city market buyer checked size (65 per cent) as the motivating factor stimulating sales more often than did customers in the urban (11 per cent) or farm (23 per cent) markets.

Although plants had been trimmed to a uniform number of canes and plants were of one grade, customers who listed size as an important factor influencing package selection in-

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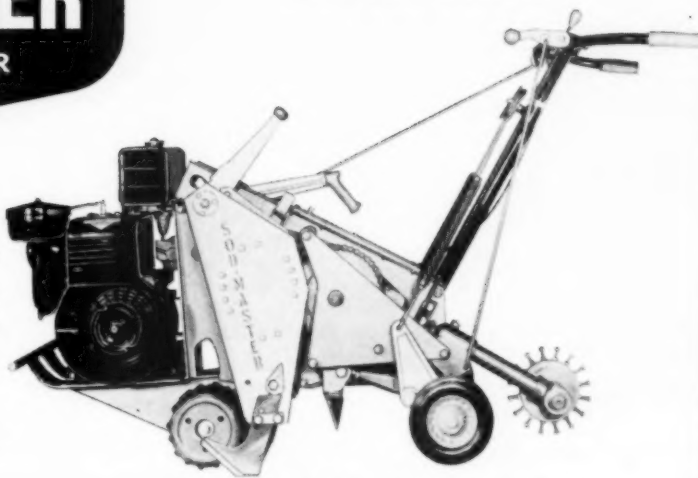
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cluded those who purchased plants having untrimmed 18-inch canes; the normal reaction was that the plants were larger and, consequently, more vigorous. These same plants required slightly larger quantities of moist packing material to fill the printed polyethylene root bag used in the particular treatment. Weight, as such, did not seem to be an influencing factor, though it was directly related to the size of the larger packages that were popular.

Twenty-two customers who had purchased 37 packaged roses were interviewed June 29 and 30. Data on garden performance and the care and maintenance given to the plants were also collected at that time.

There was little correlation between the date the plants were purchased and planted and the performance of the plants in the customer's garden. There was considerable variation in the performance of roses packaged in the various treatments and a variation between the two varieties of roses packaged in the same way. No one package treatment can be singled out as being uniformly superior to any other.

Analysis of the performance of the plants by market indicated that survival and growth were generally bet-

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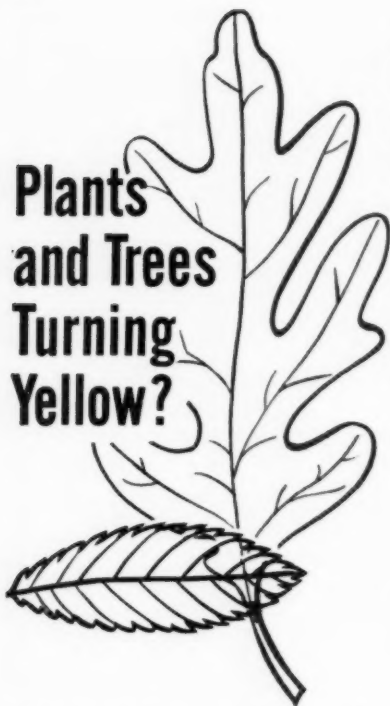
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ter in the gardens of customers patronizing the urban-city market than in gardens of the rural customers. This is understandable, since 100 per cent of the customers interviewed from the urban-city market were gardeners of some sort, having regularly cared for gardens around the home, while only 37 per cent of the customers interviewed from the rural market could be classified in the gardener category. In addition, maintenance data bore out the fact that more care to keep the plant alive was given by the urban-city gardener than by the rural customer.

### Summary

- 1.—The presence of forced growths on packaged, bare-root hybrid tea roses was the primary factor influencing package selection by rural farm customers, once the desirable color was established.
- 2.—The variety of roses displayed, cane condition (number, size and freedom from lesions), type of union and general vigor were the primary factors considered by urban and urban-city customers purchasing packaged, dormant hybrid tea roses.
- 3.—From over-all performance records in the gardens of customers, irrespective of location, and the combined sales records for the three markets, the following four treatments were superior to the other package treatments tested: An over-all clear polyethylene bag, with moist packing around the root system and a cardboard box covering the root system; an opaque, printed, polyethylene root bag, with moist packing around the root system and having waxed canes; a printed, kraft root bag, with moist packing around the root system and having waxed canes, and an over-all clear polyethylene bag plus a printed polyethylene root bag, with moist packing around the root system.
- 4.—Visibility of all or a portion of the plant was more important to customers who were amateur and professional gardeners than to those customers who were not regular gardeners.
- 5.—The care afforded plants purchased by the amateur and professional gardeners was much greater than that given by non-gardeners.

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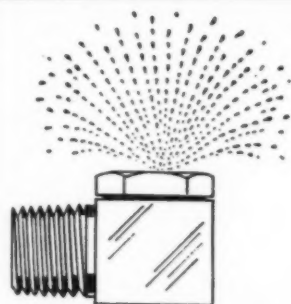


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## The Propagation of Broad-Leaved Evergreens

Reported by F. C. Galle

These data on propagating broad-leaved evergreens presented at the Plant Propagators Society meeting at Cleveland, O., conclude the group of discussion summaries which this magazine has reported. Topics have included spruce propagation, propagation of annuals and perennials, propagating viburnums, seedling production in mulch beds, synthetic aids for rooting, dwarfing techniques, handling unusual plants, propagating in containers and use of plastic structures.

Friday morning's feature was a symposium on the propagation and culture of broad-leaved evergreens that are semihardy in the north. Fred C. Galle substituted as panel chairman for Prof. Henry P. Orr, department of ornamental horticulture, Alabama Polytechnic Institute, Auburn. Mr. Galle gave a review of southern propagation methods, pointing out that, despite the longer growing season, warmer climate, more sun with greater intensity and high humidity in some areas, propagators in the south still have difficulty with some plants.

The use of greenhouses and of the new plastic houses, which are rapidly coming into use in the south, was then discussed. Open-field propagation of hardwood cuttings, practiced in some areas, was mentioned, as well as the general use of lath houses in propagation programs throughout the south. Mr. Galle mentioned that more cuttings are now handled in flats under mist; thus whole blocks of plants can be moved out, as they are rooted, to harden off in another area. There is also an increased use of mist under lath house conditions, both for hardening off the cuttings and for growing plants.

There has been a great increase of interest in the hardiness of southern plants under northern conditions and in the hardiness in the upper south of the so-called tender plants of the semitropics and the lower south. Numerous southern plants are brought north each year, including hollies, camellias, crepe myrtles, mimosas, *Magnolia grandiflora* and others. Mr. Galle advised spring planting of small plants and protection for the doubtfully hardy plants



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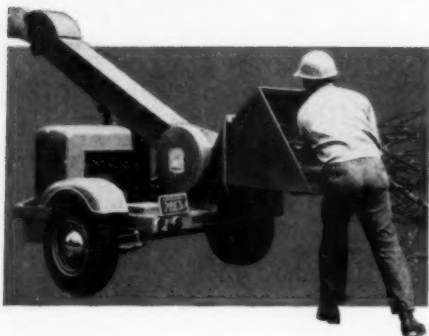
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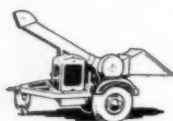
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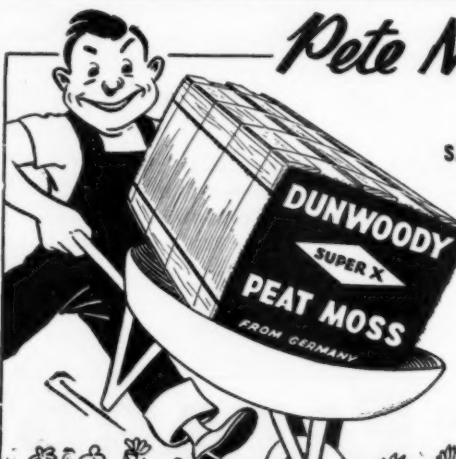
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for one or two years until they become established. Trying plants by seeds to find new hardy strains was recommended for northern growers.

A great increase in the use of *Camellia japonica* and *C. sasanqua* in the north makes selection of varieties most important. Mr. Galle cited a report on this topic in the 1955 *Camellia Society Yearbook*, in which some varieties, reported satisfactory for the north, were not considered satisfactory for the mid-south. Flower buds, normally dormant until early spring, often open during the winter under southern conditions and are damaged by sudden changes in temperature. *Camellia japonica*, according to Dr. Zimmerman, of the Boyce Thompson Institute, are not plants for the general public but for the good gardener.

### Hollies

James Wells, of James S. Wells Nursery, Red Bank, N. J., then discussed "A Propagating Program with Hollies" by giving a review of literature available on these plants, after which he discussed the various hormone treatments, wounding, types of cuttings and methods of handling. Mr. Wells mentioned that timing cuttings is not so critical as it was formerly thought, but selection of good wood is important. He mentioned that larger cuttings root better than the small cuttings that have been used in the past and that he has not, as yet, found a limit to the size of a large cutting other than the amount of space in the propagating frames and the amount of wood on the stock. Large cuttings produce a plant in less time, with a greater percentage of rooting. With large cuttings, one can use heavier wounds and stronger hormones.

Mr. Wells also mentioned that high temperatures and high humidity are favorable conditions for the propagation of holly and that a mixture of perlite and peat moss is a highly satisfactory rooting medium. Outdoor frames with bottom heat prove a satisfactory rooting area for holly.

Next, Don Hillenmeyer, Lexington, Ky., read a paper on the propagation of broad-leaved evergreens at the edge of the north. Mr. Hillenmeyer started by saying that, while many nurserymen have a "hands-off" attitude toward southern plants, some of these plants are harder than is generally supposed. He cited examples of trees normally considered tender that are proving satisfactory in his own area. There are trees of *Magnolia grandiflora* in Lexington,

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and seeds of these trees are proving satisfactory. *Ilex cornuta burfordii* has survived a temperature of 20 degrees below zero in Lexington. Cherry laurel has sustained some frost damage, but it is still called for and is used for cutting material by many gardeners.

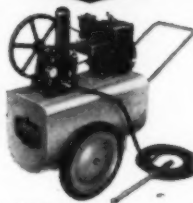
### Suitable Hardy Strains

There are many strains of boxwood and considerable variability within these plants, but there are hardy types suitable for the Lexington area, and these are in great demand. *Osmanthus americanus* is hardy in Kentucky and is propagated by seeds or grafting. There is great variability in the seedling types normally found, and he advised selection of improved hardy strains. *Abelia grandiflora* was reported as being tender in Lexington, but still in demand. Softwood cuttings are normally recommended for this plant, or hardwood cuttings taken in the fall. *Nandina* freezes about every third year, but is still an interesting plant to have, and propagation is normally handled by seeds. Following this general panel discussion, there were numerous questions from the floor and comments on other plant materials that might be used in more northern areas.

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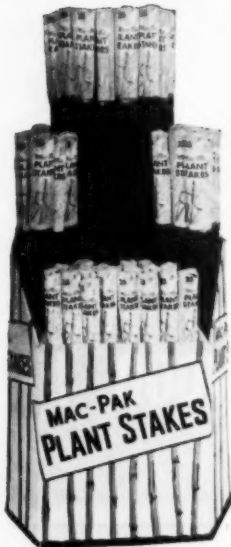
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## New Container Mix Light and Uniform

By Dr. L. L. Baumgartner

In a talk given at the meeting of the Plant Propagators Society last November, Dr. L. L. Baumgartner discussed results of a study made by Baumlanda Horticultural Research Laboratory, Croton Falls, N. Y., on mixtures to be used with container-grown stock. Dr. Baumgartner said that the laboratory's efforts for the past three years have been directed toward producing the best, easily reproducible mixture.

The mixes used in these studies varied widely and included soil-sand-peat, soil-peat, sand-peat, perlite-soil, perlite-soil-peat, perlite-peat, (German and domestic) and perlite alone. The percentages of the different ingredients were varied by factors of 25 per cent.

These tests used 18 common varieties of commercial ornamental plants grown in the northern United States. The 24,000 plants involved in this work were fed both solid and water-soluble fertilizers of two basic types. One type was of a 4-1-1 proportion and the other was of a 1-2-2 proportion.

General conclusions were the following: Peat is essential in all mixes, but no advantages could be noted for it in a quantity of more than 25 per cent in any of the mixes except the perlite-peat combination. In this case, 50 per cent peat gave the mix more body.

Sand was excellent for maintaining a porous mix during the first year, but became more difficult to wet after this period. Some sands presented a cement-like surface which repelled water. In lower New York

Summary of a talk, "A New Potting Soil Mix," given at a meeting of the Plant Propagators Society at Cleveland, O., by Dr. L. L. Baumgartner, director, Baumlanda Horticultural Research Laboratory, Croton Falls, N. Y.

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In extensive experiments (published in *Plant Disease Reporter*, 6/15/57), 80 per cent of the treated plants and cuttings recovered and remained in healthy condition, whereas 90 per cent of the untreated plants died.

In a large-scale test, 2000 plants were used. All of these showed some degree of bacterial and/or fusarium rot on roots and stems—from light infection to complete destruction of the roots. After three weekly treatments a high percentage of the plants produced new healthy roots and showed a marked improvement in growth and appearance. Results in this test confirm those of the original experiment.

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150 grams	50 gals.	\$ 6.00
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(If ordered direct add 50c for postage and handling.)  
1 gallon of solution treats approximately 8 sq. ft.

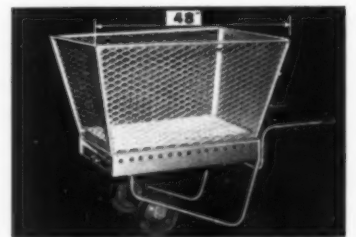
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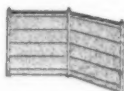
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it was difficult to find uniform sand deposits, which caused considerable difficulty in reproducing the mixes. German sedge peat appeared superior for the growth of rhododendrons, azaleas, kalmia and pieris to domestic peat developed from woody plants.

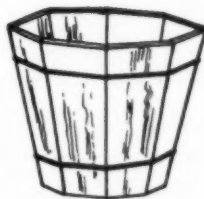
No instance was noted where the addition of soil contributed to improved plant growth. This observation differs so radically from previous concepts that it will receive further study. If soil can be entirely eliminated, there will be less difficulty with soil diseases and insects.

### Peflite-Peat Advantages

The most flexible and uniform potting mix was found to be a combination of peat and perlite. This mixture is the lightest in weight and holds the greatest amount of moisture. When it becomes dry it can be easily rewet throughout within seconds. This uniformity in moisture is believed to be responsible for the more fibrous root systems that developed in the plants canned in the mix.

Perlite is a relatively new horticultural product and undoubtedly there is much to be learned about it, but it does keep the mix porous, appears to resist decay and, most important, it does not get soggy. It holds moisture somewhat like particles of virgin soil.

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## BOOK REVIEWS

### REVISED TRADE MANUAL

Just off the press is the second edition of "Beginning in the Nursery Business," published by the American Nurseryman. The author, John J. Pinney, has completely revised the original text, which has also been amplified by comments on additional topics. New in the contents of the second edition are discussions on the subjects of "Garden Centers" and "Container-Grown Stock." The present edition consists of 64 pages, in contrast to the 48 pages of the earlier work, and is now available for \$1 per copy. The material appeared in the American Nurseryman in recent months.

The comprehensive, practical nature of the previous issue made it a popular reference for many considering entrance into the nursery trade and to others who sought new ideas for developing and expanding their businesses. The revised book, with its larger text, should be of even greater aid to individuals seeking instruction in the field.

Chapter topics are as follows: "Introduction," "Garden Centers," "Landscape Nurseries," "Mail-Order Nurseries," "Agency Nurseries," "Container-Grown Stock," "Financing" and "Keeping Records."

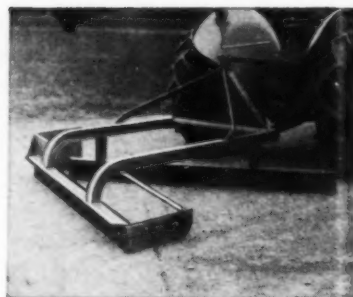
Mr. Pinney, as most readers of this magazine know, is a successful nurseryman and one who has appeared frequently on programs of trade conventions and schools. He is also the author of another popular trade work, "Operating a Garden Center."

### SHRUBS FOR THE HOME

Intended for the instruction of the small homeowner who wants to landscape his own grounds. "Evergreen and Flowering Shrubs for Your Home," by Katharine M-P. Cloud, is an informative and attractive book for anyone interested in these plants. Miss Cloud is a landscape consultant trained and long experienced in horticulture. As long as 30 years ago she was the author of a book on "The Cultivation of Shrubs," a valuable contribution to the popular literature on the subject when books on the subject were far fewer than now.

The present book begins with several chapters on the uses, cultivation and propagation of shrubs, with a separate chapter on roses.

Part II of the book consists of 64 pages devoted to an alphabetical



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enumeration of evergreen shrubs, with short descriptions of their habits and uses. Part III consists of 84 pages devoted to a similar alphabetical treatment of flowering shrubs. Part IV consists of several pages of lists of shrubs for various uses, admirable for special reference. A thorough index completes the book.

The volume is made the more attractive and valuable by 94 reproductions of photographs of landscaped homes and individual shrubs. Pictures taken before and after planting illustrate the author's explanations. Nurserymen doing landscape work should find them useful for suggestions and ideas. Published by Greenberg, Publisher, at \$4.95, this 256-page book can be recommended to the homeowner especially interested in shrubs as informative and authoritative.

### "THE AZALEA BOOK"

Aside from its sponsorship by the American Horticultural Society, "The Azalea Book," by Frederic P. Lee, just published by D. Van Nostrand Co., at \$8.95, is complete and authoritative in its treatment of a flowering shrub that is increasing in number of adherents as well as in number of varieties. This book of 336 pages, 6 $\frac{3}{4}$ x9 $\frac{3}{4}$  inches, can advise the amateur who is considering the planting of azaleas and wants to know their requirements and culture. It is also a valuable reference volume for the specialist or expert who may be interested in the distribution and classification of azaleas and rhododendrons or in the identification of species and the named varieties which have become so numerous.

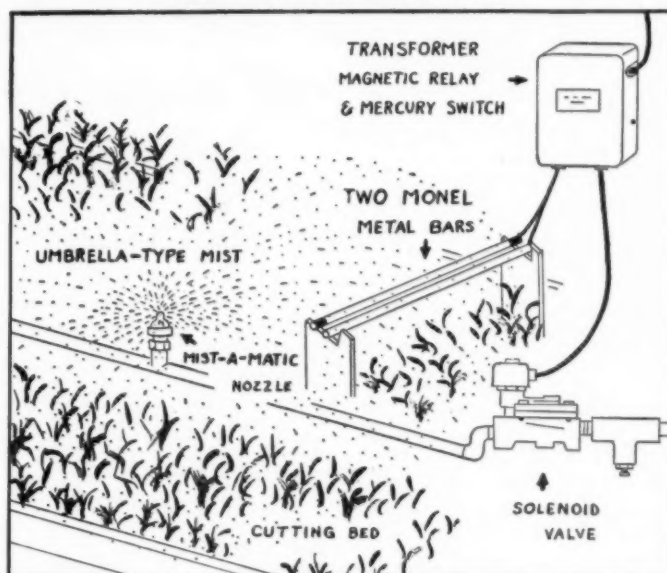
The first 64 pages are devoted to garden problems — planting and care, hardiness, propagation, control of insect, pests and diseases, and growing under glass. Then follow four chapters covering the various plant habits and forms, soil problems, nutrition, water and air, and hybridizing by amateurs.

A third section, containing eight chapters under the general title of historical background, concerns the relationship of azaleas and rhododendrons, the distribution and classification of azaleas, species, hybrids, clones and their naming, and separate chapters on the various hybrids, Ghent, mollis and other deciduous hybrids, Indian hybrids; kurume and related hybrids; Satsuki azaleas and the Gable and Glenn Dale hybrids.

The last half of the book contains descriptive lists of azaleas, the various deciduous species and named va-

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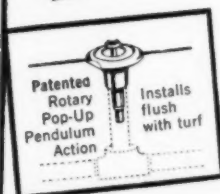
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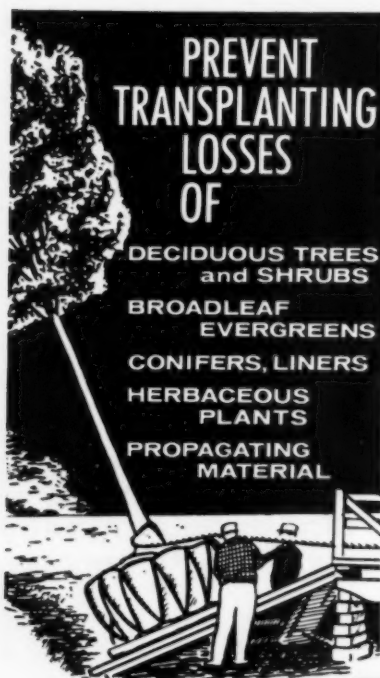
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ieties in their order and then the evergreen species and varieties in their different categories. An index of azaleas by name, in addition to a general subject index, makes immediately useful the contents of this interesting and scholarly book.

The author is well known to azalea enthusiasts for his long-standing interest in the plant; he is a lawyer practicing at Washington, D.C., and growing over 500 azaleas in his Maryland garden.

### GUIDE TO HOUSE PLANTS

To provide the amateur with the elementary information required for successful plants in the home, "Modern Guide to House Plants," by Ann Warren, is a handy little volume of 128 pages, paperbound, published by New Era Books to sell retail at 79 cents, for distribution through chain stores and supermarkets. The first half of the book is composed of short chapters on equipment, culture, soil, fertilizers, repotting, propagating and the control of pests and diseases. In the second half of the book, successive chapters are devoted to flowering plants, African violets, foliage plants, cacti and other succulents, and bulbs. About 50 plants are reproduced in illustrations, and a list of plants according to their characteristics and requirements gives much information in small space.

### LENA SEEBA PENSTEMON

The University of Nebraska announces the release of a new, seed-grown variety of penstemon, by its North Platte experiment station.

This introduction, which will be known by the varietal name of Lena Seeba, was developed by Glenn Viehmeyer, experiment station horticulturist, from a chance hybrid that appeared in the garden of Mrs. Henry Seeba, Cook, Neb., and has been named in honor of Mrs. Seeba.

The Seeba hybrid, in mixed colors, appeared in the trade in 1957, when it was first listed by a large midwestern nursery. The variety Lena Seeba is the first of a series to be purified for color (it breeds 95 to 100 per cent true for white flower color) and will be followed by red, pink, salmon and purple strains.

The Seeba hybrid is an intersectional hybrid between the sections anularius and peltanthera. The female parent was Penstemon grandiflorus, a native of the Great Plains region, and the putative male parent was P. murrayanus of the southwest deserts.

The new variety is a perennial for

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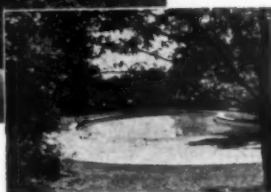
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exception of the Pacific northwest and the southeast, where long wet winters and high humidity are not to its liking. It is hardy as far north as Brooks, Alta., Canada, and yet thrives as far south as Texas.

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[Continued from page 13]

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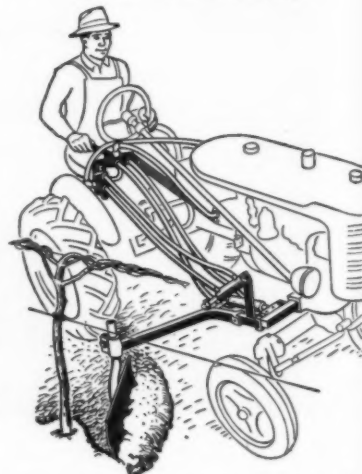
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This mite can be controlled by applying parathion, malathion, aramite, Ovotran or Chlorobenzilate early in the spring or whenever an infestation develops. (English and Snetsinger, 1957; Schuder, 1950).

A leaf hopper, *Empoasca pergandei* Gill., frequently attacks the foliage of honey locust and may cause defoliation. Applications of DDT serve to protect the foliage from attack.

A number of other insects have been noted by various authors as attacking honey locust. These include a number of scale insects such as the cottony maple scale, *Pulvinaria vitis* (L.); the San Jose scale, *Quadraspidiotus perniciosus* (Comstock); *Diaspidiotus osborni* (Newell and Cockerell); *Phenacaspis spinicola* Dietz and Morrison; *Chionaspis gleditiae* Sanders; *Chionaspis ortholobis* Comstock, and *Lecanium caryae* Fitch. Four species of caterpillars noted by various writers as attacking honey locust are the walnut datana, *Datana integerrima* G.

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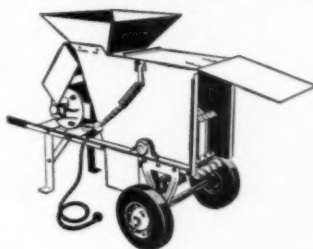
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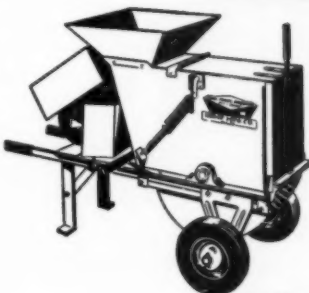
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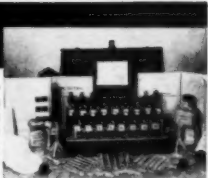
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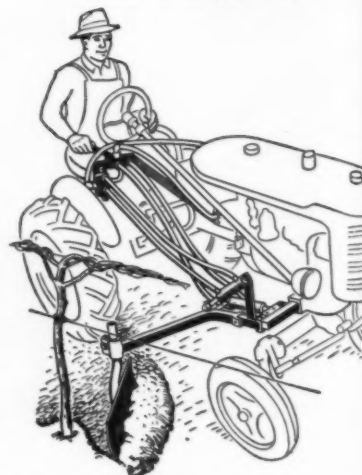
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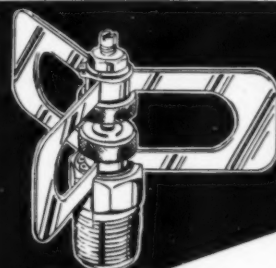
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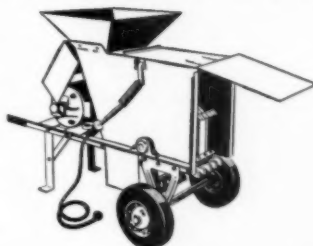
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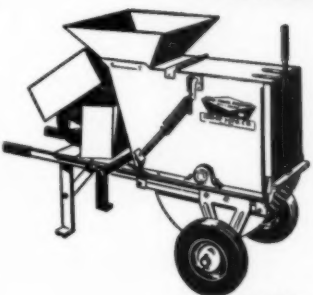
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dealers to become better acquainted and to provide them a basis for an organization.

#### Sales Shift

Because increasing quantities of nursery stock and garden supplies are being channeled through garden centers though once the nursery operators performed this sales function, buyers are expecting to obtain their horticultural information from these new dealers. Many of the latter never had horticultural training or formal education in agriculture, and schools such as this one at Cleveland can add to their knowledge of agronomy, horticulture and other subjects, so they can assist customers more effectively.

The recent Cleveland school had a registration of 84 dealers. There was an average attendance of 60 at the eight 2-hour sessions held one night a week from February 3 to March 24. Interest of those attending was high at all times, Mr. Buscher reports.

Agriculture extension and United States Department of Agriculture publications were provided to cover the individual lesson material. Speakers were from the staffs of the college of agriculture and extension service of Ohio State University, Columbus; the Ohio agricultural experiment station, and commercial concerns.

Following are the lesson topics, in the order presented: "Factors Affecting Plant Growth," "Plant Nutrition" (two sessions), "Plant Insects and Their Control," "Plant Diseases and Controls," "Lawn Problems," "Care and Management of Fruit, Vegetables, Perennials and Annuals" and "Care and Management of Evergreens, Trees, Shrubs and Roses."

#### TWO UNUSUAL SHRUBS

[Continued from page 11]

to become as mature as those shown in illustration F, the bark comes off in long sheaths or peels and flakes from the stems, which are orange beneath.

By keeping the shrub pruned, one may encourage the plant to spread to a width of six to 10 feet. Pruning does not refer to the removal of the top few inches of each branch, but removing many at the ground level or close to it.

It is a difficult plant for some people to use, but does well in deep or light shade and in moist soils, although dry soils should not prevent the shrub from being used as long as protection is provided. Annual heavy pruning encourages the oak-leaved hydrangea to become a coarse

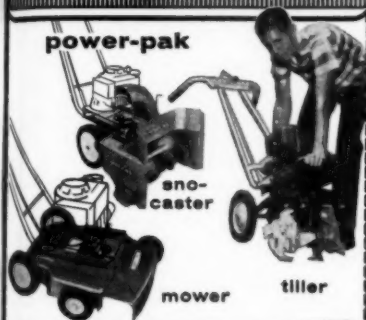
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ground cover two to three feet high. When treated in this manner, it looks good with clumps of gray birch on the edge of a woodland. Winter interest is provided by the orange stems, either alone or contrasting with the white bark of the gray birch. One's imagination must be quite active when one is determining where to use such a plant.

It may be used as a shaded background with the leather-leaved viburnum, to provide contrast with other plants or in combination with hollyhocks.

It is a good idea to use something out of the ordinary occasionally, not only to produce a different landscape result, but also to avoid falling into a routine system of choosing plant materials.

**SCARIFIER FOR RAKE**

A new scarifier attachment announced by the York Modern Corp., Unadilla, N. Y., for the model RE landscaping rakes consists of 11 replaceable teeth mounted on a 6-foot, heavy steel frame. After the scarifier unit has been mounted on the rake, it can be lowered for use and raised when not needed. The single locking pin that holds the scarifier in either

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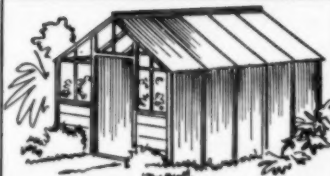
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### TEST FOR TOUGH PLANTS

Morton Arboretum, Lisle, Ill., has begun a study to discover what trees and shrubs will grow best in downtown Chicago. The test site is the new Morton Salt Co. building nearing completion near the city's Loop business area; it is flanked on one side by a branch of the Chicago river. Report of the work appeared as a news item in the Chicago Tribune recently.

The arboretum staff has planted 10 2½-inch thornless honey locusts in tubs four feet square and five feet deep inside. These are in black granite containers along the street side of the building. Alpine currant has been planted in two beds close to the building on each side of the entrance. There are 16 boxes in each bed, one plant to each box, so they can be removed and replaced with other plants—yews, big-leaved winter creeper, etc.—whenever it is desired to test new subjects.

Japanese yews, alpine currant, big-leaved winter creeper, winged euonymus, witch hazel, winter honeysuckle and cockspur hawthorn will be planted along the river front terrace, called the Morton plaza. The plaza's focal point will be three black granite planting boxes for removable vine and other plant containers.

The cribbed area sloping from the building to the river provides five terraces to work on. This area will not be changed except for improvements.

### Plan Plant Changes in Beds

On the north end of the building there are three 4x8-foot beds in the sidewalk in which plant boxes can be placed. With this replacement system, the arboretum can grow different plants and change the test plantings to study various items without having an unsightly change-over period to contend with.

Directly across the river is a demonstration planting maintained by the Garden Club of Illinois. The arboretum is planning to use some of that area to experiment with different kinds of trees in large redwood tubs.

Clarence E. Godshalk, arboretum director, states that report on the successes, limitations and failures of the various plants will be made to

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the Chicago central area committee and others interested in beautification of the city's downtown area. Plant life in the Loop must cope with such hazards as limited sunshine, severe winters and layers of soot and smoke that coat the leaves and clog plant pores.

#### CANADIAN FIRM BUILDS

[Concluded from page 14]

additional timing device within the phonograph can be set so that music plays at given intervals through the day. Norman J. Scott, general manager of Brookdale-Kingsway, Ltd., reports that the installation of the music system has increased employee morale appreciably, especially among those who work in the storage cellars and among the large number of foreign workers whom the nursery employs. The latter group enjoys particularly the recordings of foreign music and songs that the nursery obtains for them.

The increase in the firm's business that has made this expansion and improvement of facilities possible is continuing, according to Mr. Scott, who notes that Brookdale-Kingsway now does as much business in the fall as it formerly did in an entire year. Recent figures indicate the nursery's wholesale volume during the fall of 1957 rose 8 per cent over that of 1956, the previous all-time high, and retail business increased 10 per cent during the same period.

NORTHWEST garden and home exposition at Seattle, Wash., opened recently and will continue through September, featuring garden exhibits, northwest flowers and shrubs, and a model home and furniture building. It is being held at Federal Shopping way, on U. S. Highway 99, south of Seattle.

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## ABSTRACTS OF RECENT RESEARCH

### TREE DEFOLIATION STUDY

While it is widely recognized that fall planting of many hardwood trees is frequently delayed because they lose their leaves so late in the season, the exact environmental factor responsible for this late defoliation has not been known with certainty. A recent experiment by John Hacskeylo, of the forestry department of Ohio State University, Columbus, (Ohio Farm and Home Research, July-August, 1957), emphasizes the role of day length.

Fifteen plots were established under nursery conditions at a cooperating Ohio nursery. There were five plots each of white ash, red oak and black locust. Thirty to 50 plants were covered with cleaned, light-tight 55-gallon drums to control the day length. The drums were painted with aluminum paint on the outside to reflect the light and therefore reduce the temperature under the drum. To allow air movement, double-elbow pipes entered the drums at bottom and top. In this experiment normal day length was compared with 0, 4, 8 and 12 hours of illumination. Noon was the midpoint of all exposure periods.

Periodic examinations of the plants were made for leaf discoloration and fall. Following an early inspection, the plants that had received no light were dug and placed in cold storage for two weeks. These plants and those lifted at the termination of the experiment were later planted at the Ohio experiment station, Wooster, for observations on later growth.

The experiment was terminated on November 11, 1956. At that time, plants that received natural day length showed no appreciable foliar abscission. An examination made 29 days later showed that fall color was evident in the red oaks, but autumn coloring did not occur in the white ash or the black locust until 56 days after the termination of the experiment.

The rate of foliar abscission and fall coloring varied with the different varieties as well as with the treatments. Defoliation amounting to 95 to 100 per cent was effected in the black locust in 15 days of total darkness and in the red oak and white ash in 21 days. However, even when given only a 4-hour day, the black locust did not drop its leaves before

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the check plants of the same species. In the case of the red oak, there was a 90 per cent defoliation in 56 days and, in the case of the white ash, a 70 per cent defoliation under the conditions of only four hours of illumination per day. With a day length of either eight or 12 hours, the red oak and the white ash failed to vary from the checks.

In total darkness or with a photo-period of four hours, yellowing of the upper leaves preceded foliar abscission. However, in total darkness, many leaves dropped without losing their green color. With the black locust, the shorter the day, the quicker the appearance of fall coloration. In the red oak, an earlier red coloration followed by browning was noted in the foliage receiving either no light or a 4-hour day. The other treatments did not vary from the checks. In the case of the white ash, yellowing followed by browning appeared first in the plants given no light, then in those given the 4-hour day length and so on through all the test groups until the check was reached. Any reduction in day length hastened the fall coloration of this species.

Wherever the treatment hastened the fall of the leaves, the swelling of the winter buds was likewise hastened. Neither the red oak nor the white ash showed any tendency to grow at this time of the year, but the black locust was still showing some elongation of the stems, and the longer the daylight exposure, the greater the stem elongation noted during the time the experiment was in progress. C.

#### CONTROL HOLLY BUD MOTH

K. G. Swenson, of Oregon State College, Corvallis, reports that the holly bud moth, *Rhopobota naevana*, can be controlled with organic phosphate insecticides (Journal of Economic Entomology, volume 51, No. 1).

Apparently spreading southward from British Columbia through Washington and Oregon, this pest became a problem in Oregon holly orchards by 1955. The overwintering eggs of the holly bud moth begin hatching in the spring when the buds open and new leaves appear. The larvae feed on the new growth and soon roll themselves inside webbed leaves, making control difficult. Therefore insecticide applications must be made between hatching of the eggs and blossoming of the holly, a period of about 10 to 14 days.

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the holly bud moth were malathion, parathion, DDT, methoxychlor, chlorothion and diazinon. Of these malathion, four pounds of 25 per cent wettable powder to 100 gallons of water, consistently gave excellent control. Good control was also obtained with methoxychlor, but results with DDT were inconsistent. I.

## HORTICULTURAL CONGRESS

[Concluded from page 7]

by showing that the American Horticultural Council is a coordinating agency that brings together all phases of horticulture for mutual interest and action and now represents about 100 amateur and professional organizations, with a membership of more than one million.

The Belgian delegation invited the congress to hold its next international meeting in Belgium, and the invitation was accepted for 1962.

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JOHN W. CALDWELL is operating a nursery business at 3905 Homedale road, Klamath Falls, Ore., as Homedale Nursery. He has been joined by Edwin Boothby as partner.



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